10/765,227 9/19/05

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E7            7      BRAESTRUP CLAUS THYCO/AU
E8            1      BRAESTRUP L/AU
E9            1      BRAESTRUP LISELOTTE/AU
E10           1      BRAESTRUP M W/AU
E11           7      BRAESTRUP P W/AU
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E18           6      BRAET JOHAN/AU
E19           8      BRAET KATLEEN/AU
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E24           3      BRAETER HORST/AU
E25           1      BRAETER II/AU

=> s e3,e6,e7
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            73 "BRAESTRUP CLAUS"/AU
             7 "BRAESTRUP CLAUS THYCO"/AU
L1         130 ("BRAESTRUP C"/AU OR "BRAESTRUP CLAUS"/AU OR "BRAESTRUP CLAUS
               THYCO"/AU)

=> s L1 and carboline
          4461 CARBOLINE
          1800 CARBOLINES
          4860 CARBOLINE
                 (CARBOLINE OR CARBOLINES)
L2          40 L1 AND CARBOLINE

=> s L1 and ?carbolin?
          5383 ?CARBOLIN?
L3          41 L1 AND ?CARBOLIN?

=> d ibib abs 1-41
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L3 ANSWER 1 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:426064 CAPLUS
DOCUMENT NUMBER: 121:26064
TITLE: Discovery of β- Carboline ligands for benzodiazepine receptors
AUTHOR(S): Braestrup, C.; Nielsen, M.
CORPORATE SOURCE: Novo Nordisk A/S, Maaloev, DK-2760, Den.
SOURCE: Psychopharmacology Series (1993), 11(Anxiolytic β-Carbolines), 1-6
CODEN: PSSEEP; ISSN: 0931-6795
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
AB A review with 12 refs. The benzodiazepine class of drugs was discovered in the late 1950s by Sternbach and Randall at the Roche Labs. in Basle, Switzerland. Until the mid-1980s all members of this pharmacol. class were of a very similar nature chemical all being [1,4]-benzodiazepine mols. (except chlordiazepoxide). Surprisingly, all new compds. discovered for almost three decades with the characteristic diazepam-like anxiolytic, hypnotic, and anticonvulsant profile were chemical classified as benzodiazepines. They were all remarkably similar in their clin. and pharmacol. actions; they differed mainly with respect to potency, duration of action, existence of active metabolites, etc. The discovery of new chemical classes of compds. acting on benzodiazepine receptors, but not being
[1,4]-benzodiazepines, has broadened the pharmacodynamic profile of this class of drugs and has opened a new avenue for designing drugs with advantageous properties.

L3 ANSWER 2 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1991:400689 CAPLUS
DOCUMENT NUMBER: 115:689
TITLE: Characterization of tiagabine (NO-328), a new potent and selective GABA uptake inhibitor
AUTHOR(S): Nielsen, Erik B.; Suzdak, Peter D.; Andersen, Knud E.; Knutsen, Lars J. S.; Sonnewald, Ursula; Braestrup, Claus
CORPORATE SOURCE: Lab. Behav. Pharmacol., Novo Nordisk A/S, Bagsvaerd, DK-2880, Den.
SOURCE: European Journal of Pharmacology (1991), 196(3), 257-66
CODEN: EJPHAZ; ISSN: 0014-2999
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Tiagabine (NO-328) (R(-)-N-[4,4-bis(3-methylthine-2-yl)but-3-enyl]nipecotic acid, hydrochloride) is a new centrally acting GABA uptake inhibitor. The anticonvulsant activity of tiagabine was evaluated against seizures induced by Me 6,7-dimethoxy-4-ethyl-β- carboline -3-carboxylate (DMCM), pentylenetetrazol, bicuculline, maximal electrostimulation (MES), or high intensity sound. The sedative actions of tiagabine were evaluated in tests for traction, rotarod performance and exploratory behavior. Finally, interoceptive properties of tiagabine were assessed using diazepam-, CGS 9896-, pentylenetetrazole-, or amphetamine-discriminating rats. Tiagabine was an effective anticonvulsant in doses which did not produce sedation or motor debilitation, although it was not potent against MES. In a manner similar to other anti-epileptic drugs, tiagabine potentiated dopaminergic function (methylphenidate-induced gnawing in mice) although it did not substitute for amphetamine in amphetamine-trained animals. Furthermore, although tiagabine antagonized DMCM-induced convulsions, it exhibited neither CGS 9896 or diazepam-like interoceptive effects, nor did it block (or potentiate) pentylenetetrazol-discrimination. Thus, GABA uptake inhibition represents a novel rationale for a valproate-like anticonvulsant drug therapy.

L3 ANSWER 3 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1988:605371 CAPLUS
DOCUMENT NUMBER: 109:205371
TITLE: New developments in the search for central benzodiazepine endogenous ligand(s). Comments
AUTHOR(S): Braestrup, Claus
CORPORATE SOURCE: NOVO Pharm. Res. Dev., NOVO Alle, Bagsvaerd, DK 2880, Den.
SOURCE: Neurochemistry International (1988), 13(1), 21-4
CODEN: NEUIDS; ISSN: 0197-0186
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A polemic, with respect to the review of endogenous ligands for the benzodiazepine receptors of E. De Roberts, et al. (ibid. 1988, 13, 1). The need for a more rigorous examination of endogenous peptides and benzodiazepines and of β- carbolines as candidate ligands is discussed.

L3 ANSWER 4 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1986:618755 CAPLUS
DOCUMENT NUMBER: 105:218755
TITLE: The effects of FG 7142 and RO 15-1788 on the release of punished responding produced by chlordiazepoxide and ethanol in the rat
AUTHOR(S): Koob, G. F.; Braestrup, C.; Britton, K. Thatcher
CORPORATE SOURCE: Dep. Basic Clin. Res., Scripps Clin. Res. Found., La Jolla, CA, 92037, USA
SOURCE: Psychopharmacology (Berlin, Germany) (1986), 90(2), 173-8
CODEN: PSCHDL; ISSN: 0033-3158
DOCUMENT TYPE: Journal
LANGUAGE: English
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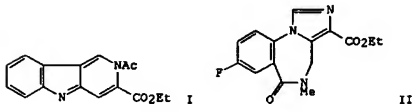


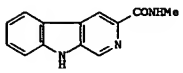
I II

AB In rats, FG 7142 (I) [78538-74-6] (20 and 40 mg/kg) produced suppression of both punished and unpunished responding, and reversed the release of punished responding produced by both chlordiazepoxide [58-25-3] and EtOH [64-17-5], but only at doses that produced an effect on its own. FG 7142 thus acted to oppose the actions of both EtOH and benzodiazepines but in an additive, not interactive, manner. In contrast, RO 15-1788 (II) [78755-81-4] produced no changes when injected by itself in doses ≤12 mg/kg and reversed chlordiazepoxide-induced but not EtOH-induced release of punished responding. RO 15-1788 also reversed the decrease in punished responding produced by FG 7142. Apparently, EtOH does not interact directly with the benzodiazepine binding sites on the GABA/benzodiazepine ionophore complex to produce its anxiolytic action.

L3 ANSWER 5 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1985:606366 CAPLUS
DOCUMENT NUMBER: 103:206366
TITLE: Radiation inactivation of brain [35S]t-butylbicyclophosphorothionate binding sites reveals complicated molecular arrangements of the GABA/benzodiazepine receptor chloride channel complex
AUTHOR(S): Nielsen, M.; Honore, T.; Braestrup, C.
CORPORATE SOURCE: Psychopharmacol. Res. Lab., Hans Hosp., Roskilde, DK-4000, Den.
SOURCE: Biochemical Pharmacology (1985), 34(20), 3633-42
CODEN: BCPCA6; ISSN: 0006-2952
DOCUMENT TYPE: Journal
LANGUAGE: English

AB 35S-Labeled t-butylbicyclophosphorothionate ([35S]TBPS [70636-86-1], a bicyclic cage convulsant, binds to the anion gating mechanism of the GABA-benzodiazepine receptor Cl- channel complex; with the use of a carefully calibrated radiation-inactivation technique, the mol. weight of [35S]TBPS binding complexes from frozen rat cerebral cortex was estimated to be 137,000 daltons. The GABA agonist muscimol reduced [35S]TBPS binding to 0-10% of the control value, in a way which was independent of the radiation dose. This shows that the GABA receptor (mol. weight = 55,000 daltons) is included in the 137,000-dalton [35S]TBPS binding complex; the [35S]TBPS binding protein alone accounts for 82,000 daltons. The pyrazolopyridazine etazolate (SQ 20.009) and etomidate in appropriate concns. both reduced specific binding of [35S]TBPS. The ability of SQ 20.009 and etomidate to reduce [35S]TBPS binding was greatly reduced by exposure to low radiation doses, suggesting that SW 20.009 and etomidate reduce [35S]TBPS binding by an allosteric mechanism requiring a mol. structure of 450,000-500,000 daltons. The benzodiazepine agonists Et 4-methoxymethyl-6-β- carboline-3-carboxylate (DMCM) enhanced and reduced [35S]TBPS binding, resp., in repeatedly frozen and washed membrane prepns. The effects of ZK 93423 and DMCM on [35S]TBPS binding disappeared upon exposure of membranes to low radiation doses. This suggests that the benzodiazepine receptor site interacts allosterically with the [35S]TBPS binding site, requiring a mol. complex of at least 400,000 daltons. The [35S]TBPS site alone in these latter conditions of membrane preparation (repeatedly frozen/washed) revealed a mol. weight of 221,000 daltons (TBPS-site + GABA receptor + unknown structures). The number of binding sites for [35S]TBPS (145 pmol/g tissue) was only slightly higher than for [3H]flunitrazepam (130 pmol/g tissue) in cerebral cortex. These results are all consonant with the conclusion that the GABA-benzodiazepine receptor Cl- channel complex is composed of highly integrated multimeric subunits, tentatively accounted for by a tetramic complex of mol. weight 548,000 daltons.

L3 ANSWER 6 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1985:498649 CAPLUS
DOCUMENT NUMBER: 103:98649
TITLE: Effects of the β- carboline, FG 7142, in the social interaction test of anxiety and the holeboard: correlations between behavior and plasma concentrations
AUTHOR(S): File, Sandra E.; Pellow, Sharon; Braestrup, Claus
CORPORATE SOURCE: Sch. Pharm., Univ. London, London, WC1N 1AX, UK
SOURCE: Pharmacology, Biochemistry and Behavior (1985), 22(6), 941-4
CODEN: PBBHAU; ISSN: 0091-3057
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB The behavioral effects of the β- carboline FG 7142 (I) [78538-74-6] were investigated in the social interaction test of anxiety and the holeboard test of exploration and locomotor activity. FG 7142 (5-20 mg/kg) produced a significant decrease in the time spent in social interaction by pairs of rats, without an accompanying decrease in motor activity. This anxiogenic effect was highly correlated with the plasma concns. of FG 7142 for the rats receiving 5 and 10 mg/kg doses, but not for those receiving the 20 mg/kg dose. In the holeboard, FG 7142 had no effect on exploratory head-dipping at the doses tested, but selectively reduced locomotor activity and the number of rears. The profile of FG 7142 in these tests is compared with those of other β- carbolines .

L3 ANSWER 7 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1985:487857 CAPLUS
DOCUMENT NUMBER: 103:87857
TITLE: Substituted β- carbolines and their use in treatment of the central nervous system
INVENTOR(S): Huth, Andreas; Schmiechen, Ralph; Rahtz, Dieter; Seidelmann, Dieter; Braestrup, Claus Thyco
PATENT ASSIGNEE(S): Schering A.-G. , Fed. Rep. Ger.
SOURCE: Ger. Offen., 35 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3335323	A1	19850404	DE 1983-3335323	19830927
EP 137390	A1	19850417	EP 1984-111337	19840922
EP 137390	B1	19900816		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 55604	E	19900915	AT 1984-111337	19840922
DK 8404564	A	19850328	DK 1984-4564	19840925
DK 170256	B1	19950717		
ES 536199	A1	19850601	ES 1984-536199	19840925
DD 223714	A5	19850619	DD 1984-267607	19840925
FI 8403777	A	19850328	FI 1984-3777	19840926
NO 8403861	A	19850328	NO 1984-3861	19840926
NO 160998	B	19890313		
NO 160998	C	19890621		
AU 8433570	A1	19850404	AU 1984-33570	19840926
AU 578043	B2	19881013		
HU 35673	O	19850729	HU 1984-3650	19840926
HU 200457	B	19890130		
US 4623649	A	19861118	US 1984-654594	19840926
IL 73071	A1	19880630	IL 1984-73071	19840926
CA 1263394	A1	19891128	CA 1984-464082	19840926
ZA 8407619	A	19850529	ZA 1984-7619	19840927
JP 60100577	A2	19850604	JP 1984-200717	19840927
JP 05086390	B4	19931210		

PRIORITY APPLN. INFO.: DE 1983-3335323 A 19830927
EP 1984-111337 A 19840922
OTHER SOURCE(S): CASREACT 103:87857
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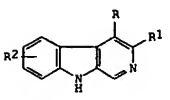

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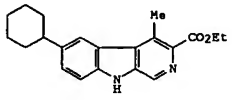

II

AB The title compds. [I; R = H, alkyl, alkoxymethyl; R1 = substituted 1,2,4-oxadiazol-5-yl; R2 = (un)substituted hydrocarbyl, S-containing heterocycyl] were prepared Thus, Et 6-iodo-4-methyl-β-carboline-3-carboxylate was alkylated by cyclohexene in DMF in the presence of Et3N, Pd(OAc)2, and (2-MeC6H4)3P and the cyclohexenyl derivative

L3 ANSWER 7 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

hydrogenated over Raney Ni in EtOH to give cyclohexyl-β-carboline II. In mice II inhibited brain uptake of flunitrazepam with an ED50 of 4.7 mg/kg s.c.

L3 ANSWER 8 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1985:406326 CAPLUS
DOCUMENT NUMBER: 103:6326
TITLE: β- Carbolines and their use
INVENTOR(S): Huth, Andreas; Schmiechen, Ralph; Seidelmann, Dieter; Rahtz, Dieter; Engelstoft, Mogens; Braestrup, Claus Thyco
PATENT ASSIGNEE(S): Schering A.-G. , Fed. Rep. Ger.
SOURCE: Ger. Offen., 29 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3322894	A1	19850103	DE 1983-3322894	19830623
SU 1376940	A3	19880223	SU 1984-3747651	19840607
ES 533378	A1	19850416	ES 1984-533378	19840613
FI 8402500	A	19841224	FI 1984-2500	19840620
FI 79110	B	19890731		
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NO 8402482	A	19841227	NO 1984-2482	19840620
NO 160783	B	19890220		
NO 160783	C	19890531		
AU 8429553	A1	19850103	AU 1984-29553	19840620
AU 576199	B2	19880818		
IL 72166	A1	19880630	IL 1984-72166	19840620
DK 8403045	A	19841224	DK 1984-3045	19840621
DK 169968	B1	19950418		
EP 130141	A2	19850102	EP 1984-730070	19840621
EP 130141	A3	19851016		
EP 130141	B1	19900912		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 56449	E	19900915	AT 1984-730070	19840621
JP 60013791	A2	19850124	JP 1984-127678	19840622
JP 05085553	B4	19931207		
ZA 8404782	A	19850227	ZA 1984-4782	19840622
HU 34480	A2	19850328	HU 1984-2432	19840622
HU 192052	B	19870528		
US 4600715	A	19860715	US 1984-623671	19840622
CA 1240324	A1	19880809	CA 1984-457212	19840622

PRIORITY APPLN. INFO.: DE 1983-3322894 A 19830623
EP 1984-730070 A 19840621
OTHER SOURCE(S): CASREACT 103:6326
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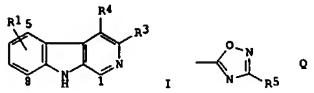

AB β- Carbolines I [R3 = Q [R5 = C1-5 alkyl, CO2R6 (R6 = C1-7 alkyl, aralkyl, alkoxyalkyl), CONR7R8 (R7, R8 = H, C1-5 alkyl; R7R8 complete a piperidine ring]; R4 = H, C1-3 alkyl, CH2OR9 (R9 = C1-3 alkyl);

L3 ANSWER 8 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

R1 = CO2R10 (R10 = H, C1-5 alkyl, alkoxyalkyl, alkenyl, CH2Ph), C(Z)NR11R12 (Z = O, S; R11, R12 = H, alkyl, alkenyl, R11R12 complete a 5- or 6-membered N contg. ring, optionally with addnl. heteroatoms as O, S, and Me or Ph (un)substituted N], having a strong affinity and specificity for bonding to benzodiazepine receptors, were prepd. by several methods. Thus, iodinating 5.08 g Et 4-methyl-β- carboline -3-carboxylate in AcOH with H2O, H2SO4, HIO3, and iodine for 3 h at 80° gave 4.3 g the 6-iodo deriv., which (1.97 g) was benzyloxycarbonylated with PhCH2OH and CO under NBu3 and Pd(OAc)2 catalysis at 100° for 2 h to give 980 mg I (R1 = 6-PhCH2O2C, R3 = CO2Et, R4 = Et). I (R1 = CO2Pr, R3 = CO2Et, R4 = Me) had ED50 4.9 mg/mL in vivo (mice) for 50% redn. of specific bonding of flunitrazepam on benzodiazepine receptor in the brain.

L3 ANSWER 9 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1985:400456 CAPLUS
DOCUMENT NUMBER: 103:456
TITLE: Benzodiazepine receptor ligands with positive and negative efficacy
AUTHOR(S): Braestrup, Claus; Nielsen, Mogens; Honore, Tage
CORPORATE SOURCE: Sct. Hans Ment. Hosp., Roskilde, 4000, Den.
SOURCE: NATO ASI Series, Series A: Life Sciences (1984), 72(Princ. Methods Recept. Binding), 113-25
CODEN: NALSDJ; ISSN: 0258-1213
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The distinct features of the binding of Me β- carboline -3-carboxylate [69954-48-9] and Me 6,7-dimethoxy-4-ethyl-β- carboline-3-carboxylate [82499-00-1] to benzodiazepine receptors are described in relation to the differences between the binding properties of these compds. and those of the benzodiazepines and in relation to the pharmacol. of benzodiazepine receptor ligands.

L3 ANSWER 10 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1985:185068 CAPLUS
DOCUMENT NUMBER: 102:185068
TITLE: β- Carbolines and their therapeutic use
INVENTOR(S): Seidelmann, Dieter; Schmiechen, Ralph; Huth, Andreas; Rahtz, Dieter; Braestrup, Claus Thyco; Engelstoft, Mogens
PATENT ASSIGNEE(S): Schering A.-G. , Fed. Rep. Ger.
SOURCE: Ger. Offen., 29 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3322895	A1	19850103	DE 1983-3322895	19830623
SU 1376946	A3	19880223	SU 1984-3747801	19840607
ES 533377	A1	19850216	ES 1984-533377	19840613
FI 8402499	A	19841224	FI 1984-2499	19840620
FI 79109	B	19890731		
FI 79109	C	19891110		
NO 8402483	A	19841227	NO 1984-2483	19840620
NO 160612	B	19890130		
NO 160612	C	19890510		
AU 8429552	A1	19850103	AU 1984-29552	19840620
AU 575566	B2	19880804		
IL 72165	A1	19871130	IL 1984-72165	19840620
DK 8403044	A	19841224	DK 1984-3044	19840621
DK 169785	B1	19950227		
EP 130140	A2	19850102	EP 1984-730069	19840621
EP 130140	A3	19850925		
EP 130140	B1	19910123		
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AT 60332	E	19910215	AT 1984-730069	19840621
JP 60013790	A2	19850124	JP 1984-127677	19840622
JP 05085552	B4	19931207		
ZA 8404767	A	19850227	ZA 1984-4767	19840622
HU 34484	A2	19850328	HU 1984-2433	19840622
HU 190573	B	19860929		
CA 1254895	A1	19890530	CA 1984-457217	19840622
SU 1428202	A3	19880930	SU 1985-3967804	19851025
US 4894377	A	19900116	US 1987-3179	19870114
FI 8901092	A	19890308	FI 1989-1092	19890308
FI 84725	B	19910930		
FI 84725	C	19920110		

PRIORITY APPLN. INFO.: DE 1983-3322895 A 19830623
FI 1984-2499 A 19840620
EP 1984-730069 A 19840621
US 1984-623610 B1 19840622
OTHER SOURCE(S): CASREACT 102:185068
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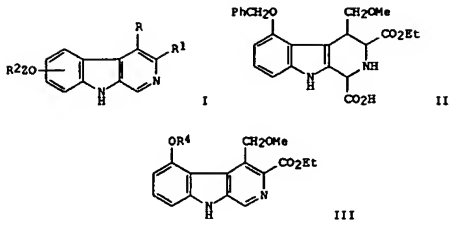
L3 ANSWER 10 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



I II

III

AB The title compds. (I: R = H, Me, Et, MeOCH2; R1 = CO2R3, substituted 1,2,4-oxadiazol-5-yl; R3 = alkyl; R2 = substituted Ph; Z = bond, alkylene, alkenylene, optionally with an oxo substituent) were prepared Thus, Et 2-amino-3-[4-(benzyloxy)indol-3-yl]-4-methoxybutyrate was cyclocondensed with HCOCO2H to give β- carbolinedicarboxylate II. This was aromatized, debenzylated, and decarboxylated by refluxing in xylene with Pd/C to give III (R4 = H). This was benzylated by treatment with 3-ClC6H4CHZX (X = halo) to give III (R4 = 3-ClC6H4CH2) (IV). In the pentazol test in mice IV had an ED50 of 0.9 mg/kg i.p. I also showed benzodiazepine receptor binding activity.

L3 ANSWER 11 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

AB Title compds. I (R = Me, Et, Pr, CHMe2; R1 = H, Me, Et, Pr, CHMe2) were prepared Thus, Et 2-amino-3-(4-isopropoxy indol-3-yl)butanoate was cyclocondensed with HCOCO2H to give 5-isopropoxy-3-(ethoxycarbonyl)-4-methyl-1,2,3,4-tetrahydro-β- carboline-1-carboxylic acid which was decarboxylated and dehydrogenated to give I (R = CHMe2, R1 = Me)(II). II inhibited the in vivo binding of flunitrazepam to benzodiazepine receptors of mice brains with an ED50 of 0.3 mg/kg and antagonized the action of 5 mg diazepam on pentazole-induced seizures in mice with an ED50 of 0.7 mg/kg.

L3 ANSWER 11 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1985:132017 CAPLUS
DOCUMENT NUMBER: 102:132017
TITLE: β- Carbolin-3-carboxylic acid derivatives
INVENTOR(S): Braestrup, Claus Thyco; Petersen, Erling; Honore, Tage; Jensen, Leif Helth; Seidelmann, Dieter
PATENT ASSIGNEE(S): Schering A.-G. , Fed. Rep. Ger.
SOURCE: Eur. Pat. Appl., 13 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 128415	A2	19841219	EP 1984-105849	19840522
EP 128415	A3	19851218		
EP 128415	B1	19880831		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
DK 8302402	A	19841128	DK 1983-2402	19830527
DK 149270	B	19860414		
DK 149270	C	19860825		
NO 8402014	A	19841128	NO 1984-2014	19840521
NO 159854	B	19881107		
NO 159854	C	19890215		
AU 8428470	A1	19841129	AU 1984-28470	19840522
AU 567163	B2	19871112		
IL 71887	A1	19871030	IL 1984-71887	19840522
AT 36853	E	19880915	AT 1984-105849	19840522
DK 8402563	A	19841128	DK 1984-2563	19840524
DK 149271	B	19860414		
DK 149271	C	19860825		
FI 8402112	A	19841128	FI 1984-2112	19840525
FI 79108	B	19890731		
FI 79108	C	19891110		
ZA 8404003	A	19850130	ZA 1984-4003	19840525
HU 34483	A2	19850328	HU 1984-2037	19840525
HU 189904	B	19860828		
ES 532836	A1	19850616	ES 1984-532836	19840525
CA 1256877	A1	19890704	CA 1984-455218	19840525
JP 60041676	A2	19850305	JP 1984-106707	19840528
JP 08009614	B4	19960131		
US 4748179	A	19880531	US 1985-746811	19850620

PRIORITY APPLN. INFO.: DK 1983-2402 A 19830527
EP 1984-105849 A 19840522
US 1984-614504 A1 19840529

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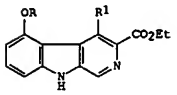

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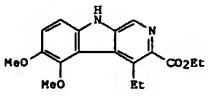
L3 ANSWER 12 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1985:56047 CAPLUS
DOCUMENT NUMBER: 102:56047
TITLE: Discriminative stimulus properties of methyl 6,7-dimethoxy-4-ethyl-β- carboline -3-carboxylate (DMCM), an inverse agonist at benzodiazepine receptors
AUTHOR(S): Nielsen, Erik B.; Jepsen, Svend A.; Nielsen, Mogens; Braestrup, Claus
CORPORATE SOURCE: Psychopharmacol. Res. Lab., Sct. Hans Hosp., Roskilde, DK-4000, Den.
SOURCE: Life Sciences (1985), 36(1), 15-23
CODEN: LIFSAK; ISSN: 0024-3205
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Rats were trained to discriminate the stimulus properties of the potent benzodiazepine (BZ) receptor inverse agonist methyl 6,7-dimethoxy-4-ethyl-β- carboline-3-carboxylate (DMCM) [82499-00-1] from saline in a 2-lever operant task. The initial training dose of DMCM was 0.4 mg/kg at which the discrimination developed slowly; increasing the dose to 0.8 mg/kg resulted in rapid acquisition. However, since convulsions eventually developed during further training (sensitization), the training dose was finally individualized below the convulsive threshold (0.4-0.7 mg/kg). The DMCM cue was mimicked by FG 7142 (10 mg/kg), a nonconvulsant anxiogenic β- carboline, by pentylenetetrazol (20-30 mg/kg), and by the GABA antagonist bicuculline (2 mg/kg). The DMCM cue was not, or marginally, blocked by diazepam (2.5 mg/kg) or pentobarbital (10-15 mg/kg). Furthermore, the BZ receptor antagonists CGS 8216 (2.5 mg/kg), ZK 93426 (20 mg/kg), and Ro 15-1788 (20-80 mg/kg) also did not, or only marginally, block the DMCM cue. However, the receptor antagonists (alone) substituted for DMCM although Ro 15-1788 was less effective. The partial BZ receptor agonist ZK 91296 (25 mg/kg), which is structurally similar to DMCM, blocked completely the DMCM stimulus effect. THIP (4 mg/kg) did not block the DMCM cue. Apparently, the repeated DMCM treatment, necessary for maintaining the discrimination, shifts the balancing point (set-point) for pos. (i.e., BZ-like) agonist efficacy vs. inverse agonist efficacy, towards inverse action. This hypothesis was supported, by the finding of an enhanced ability of GABA to reduce 3H-DMCM binding to cortical neuronal membranes of animals treated chronically with DMCM in a regimen similar to that used to maintain the DMCM discrimination. Furthermore, this treatment did not affect baseline 3H-DMCM binding, baseline or GABA stimulated 3H-diazepam binding, or 35S-TBPS binding (to Cl- channels).

L3 ANSWER 13 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1985:39773 CAPLUS
DOCUMENT NUMBER: 102:39773
TITLE: Specific 3H-DMCM binding to a non-benzodiazepine binding site after silver ion treatment of rat brain membranes
AUTHOR(S): Honore, Tage; Nielsen, Mogens; Braestrup, Claus
CORPORATE SOURCE: Res. Div., A/S Ferrosan, Soeborg, DK-2860, Den.
SOURCE: Life Sciences (1984), 35(22), 2257-67
CODEN: LIFSAX; ISSN: 0024-3205
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



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AB Specific binding of the benzodiazepine (BZ) receptor ligand 3H-labeled DMCM (I) [82499-00-1] to rat cortical membranes was dramatically enhanced by preincubation of the homogenate with 0.1 mM silver (Ag+) nitrate. The binding was completely inhibited by midazolam. The pharmacol. specificity of the Ag+-enhanced 3H-DMCM binding was different from that of BZ-receptors. The Bmax value, the regional distribution and the mol. target size determined by radiation inactivation anal. of the Ag+-enhanced binding site were different from those of BZ-receptors. The results indicate that Ag+-enhanced 3H-DMCM binding represent a high affinity metal complex formation between 3H-DMCM and an unknown brain specific protein of approx. 100,000 daltons mol. weight

L3 ANSWER 14 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1985:4119 CAPLUS
DOCUMENT NUMBER: 102:4119
TITLE: A study on benzodiazepine receptor binding in audiogenic seizure-susceptible rats
AUTHOR(S): Tacke, Ulrich; Braestrup, Claus
CORPORATE SOURCE: Dep. Pharmacol. Toxicol., Univ. Kuopio, Kuopio, SF-70211, Finland
SOURCE: Acta Pharmacologica et Toxicologica (1984), 55(3), 252-9
CODEN: APTOA6; ISSN: 0001-6683
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Benzodiazepine receptors were investigated in the cerebral cortex, the hippocampus, the brainstem, and the cerebellum of audiogenic seizure (AGS)-susceptible and seizure-resistant (ER) control rats. In AGS-susceptible rats of Sprague-Dawley descent, muscimol (10-6 M and 3 + 10-5 M) activated the binding of 3H-diazepam (0.4 nM) significantly less than in ER-rats. This finding may be strain selective, since it was not observed in AGS-susceptible rats of Wistar descent. Specific binding of the convulsant benzodiazepine receptor ligand Me 6,7-dimethoxy-4-Et carboline-3-carboxylate (3H-DMCM), the benzodiazepine receptor ligand 3H-diazepam and the chloride channel directed cage convulsant t-butylbicyclophosphorothionate 35S-TBPS were not significantly changed in AGS-susceptible as compared to control rats. The findings indicate that a disturbance at the level of the benzodiazepine receptor/GABA receptor/chloride channel complex is not a likely general etiol. factor for audiogenic seizures in rats.

L3 ANSWER 15 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1984:583832 CAPLUS
DOCUMENT NUMBER: 101:183832
TITLE: Bidirectional effects on anxiety of β-carbolines acting as benzodiazepine receptor ligands
AUTHOR(S): Stephens, D. N.; Kehr, W.; Schneider, H. H.; Braestrup, C.
CORPORATE SOURCE: Res. Lab., Schering A.-G., Berlin, Fed. Rep. Ger.
SOURCE: Neuropharmacology (1984), 23(7B), 879-80
CODEN: NEPHBW; ISSN: 0028-3908
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Although the antipunishment activity of anxiolytic benzodiazepine (BZ) receptor ligands correlated with their binding potency in vivo, certain β- carboline ligands enhanced the punishing effects of footshock and antagonized diazepam [439-14-5]'s antipunishment action. Similar bidirectional effects were seen in rats trained to discriminate between pentylenetetrazol (PTZ) and saline injections to obtain food in an operant task. BZ-like β- carbolines antagonized the PTZ cue whereas those with propunishment properties substituted for it. The direction of the effect of β- carbolines depended on whether they enhanced (anxiolytic) or inhibited binding of [35S]-t-butylbicyclophosphorothionate to the GABA/BZ-receptor/Cl ionophore complex.

L3 ANSWER 16 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1984:551824 CAPLUS
DOCUMENT NUMBER: 101:151824
TITLE: β- Carbolines and pharmaceutical preparations containing them
INVENTOR(S): Huth, Andreas; Rahtz, Dieter; Seidelmann, Dieter; Schmiechen, Ralph; Biere, Helmut; Braestrup, Claus Thyco
PATENT ASSIGNEE(S): Schering A.-G. , Fed. Rep. Ger.
SOURCE: Ger. Offen., 66 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3240514	A1	19840503	DE 1982-3240514	19821029
JP 59089678	A2	19840523	JP 1983-195407	19831020
JP 06033260	B4	19940502		
FI 8303918	A	19840430	FI 1983-3918	19831026
EP 110814	A2	19840613	EP 1983-730103	19831027
EP 110814	A3	19850724		
EP 110814	B1	19891213		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
DD 213217	A5	19840905	DD 1983-256042	19831027
AT 48602	E	19891215	AT 1983-730103	19831027
DK 8304956	A	19840430	DK 1983-4956	19831028
NO 8303942	A	19840430	NO 1983-3942	19831028
AU 8320694	A1	19840503	AU 1983-20694	19831028
AU 568513	B2	19880107		
ZA 8308072	A	19840627	ZA 1983-8072	19831028
HU 32374	O	19840730	HU 1983-3711	19831028
HU 198208	B	19890828		
ES 526896	A1	19840801	ES 1983-526896	19831028
CA 1260475	A1	19890926	CA 1983-439951	19831028
US 4731358	A	19880315	US 1986-902855	19860902

PRIORITY APPLN. INFO.: DE 1982-3240514 A 19821029
EP 1983-730103 A 19831027
US 1983-546357 A1 19831028
OTHER SOURCE(S): CASREACT 101:151824
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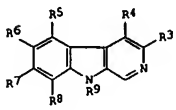

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AB β- Carbolines I [R3 = H, halo, OR (R = H, C1-5 alkyl, cycloalkyl, acalkyl, aryl, heterocyclyl), NR1R2 (R1 = R but ≠ heterocyclyl; R2 = C1-3 acyl, C1-6 alkoxycarbonyl, CONH2; NR1R2 = 5- or 6-membered heterocyclyl), SOnR (n = 0-2), PO3R10R11 (R10, R11 = R but ≠ heterocyclyl), (un)substituted C1-5 alkyl, R10 = cycloalkyl, acalkyl, aralkenyl, aryl; R4 = H, C1-5 alkyl, alkoxyalkyl, COR12 (R12 = H,

L3 ANSWER 16 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
C1-5 alkyl, cycloalkyl, aralkyl, OH, alkoxy, cycloalkoxy, aralkoxy, NR12, CSR13 (R13 = H, C1-5 alkyl, cycloalkyl, aralkyl); R5-R8 = H, halo, NO2, OR, NR1R2, PO3R10R11, SO2NRR11, CO2R, CONR1R2, CSNR1R2, COR; R9 = H, C1-5 alkyl, C1-3 acyl, CONH2, C1-6 alkoxycarbonyl, SO2R14 (R14 = Me, p-tolyl)], useful in controlling aggressive behavior (no data), were prepd. by 9 methods. Refluxing indole with Me2NCH:C(N:CHNMe2)CO2Et in AcOH 6 h gave I (R3 = CO2Et, R4-R9 = H), LiAlH4 redn. of which gave I (R3 = CH2OH, R4-R9 = H).

L3 ANSWER 17 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1984:503949 CAPLUS
DOCUMENT NUMBER: 101:103949
TITLE: Evaluation of the β- carboline ZK 93426 as a benzodiazepine receptor antagonist
AUTHOR(S): Jensen, Leif H.; Petersen, Erling N.; Braestrup, Claus; Honore, Tage; Kehr, Wolfgang; Stephens, David N.; Schneider, Herbert; Seidelmann, Dieter; Schmiechen, Ralph
CORPORATE SOURCE: Res. Div., A/S Ferrosan, Soeborg, DK-2860, Den.
SOURCE: Psychopharmacology (Berlin, Germany) (1984), 83(3), 249-56
CODEN: PSCHDL; ISSN: 0033-3158
DOCUMENT TYPE: Journal
LANGUAGE: English
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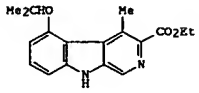

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AB Certain biochem. effects of ZK 93426 (I) [89592-45-0] were quite similar to those of the benzodiazepine antagonists Ro 15-1788 and CGS 8216 (e.g., [3H]flunitrazepam displacement, GABA ratio, photoshift). In most pharmacol. tests I and Ro 15-1788 lacked overt effects; Ro 15-1788 was a weak agonist in some paradigms, whereas I exhibited a potent proconflict effect but also a weak anticonvulsant effect. This finding with I suggests that benzodiazepine (BZ) receptor ligands may possess differential efficacy at BZ receptor subtypes. In contrast, CGS 8216 exhibited potent proconvulsant effects in several paradigms in addition to proconflict and pentylenetetrazole generalizing effects. I, Ro 15-1788, and CGS 8216 were almost equally potent as antagonists of the effects of BZ receptor agonists, such as diazepam and lorazepam. However, I was the most potent inhibitor of the convulsions produced by the BZ receptor inverse agonist DMCM.

L3 ANSWER 18 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1984:503948 CAPLUS
DOCUMENT NUMBER: 101:103948
TITLE: ZK 91296, a partial agonist at benzodiazepine receptors
AUTHOR(S): Petersen, Erling N.; Jensen, Leif H.; Honore, Tage; Braestrup, Claus; Kehr, Wolfgang; Stephens, David N.; Wachtel, Helmuth; Seidelman, Dieter; Schmiechen, Ralph
CORPORATE SOURCE: Res. Div., A/S Ferrosan, Soeborg, DK-2860, Den.
SOURCE: Psychopharmacology (Berlin, Germany) (1984), 83(3), 240-8
CODEN: PSCHDL; ISSN: 0033-3158
DOCUMENT TYPE: Journal
LANGUAGE: English
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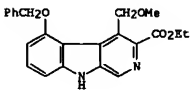

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AB ZK 91296 (I) [83910-34-3] is a potent and selective ligand for benzodiazepine (BZ) receptors. I may be a partial agonist at BZ receptors; this may explain to some extent why I needs higher BZ receptor occupancy than diazepam for the same effect against chemical convulsants and for behavioral effects. The lack of sedative effects and the very potent inhibition of reflex epilepsy, spontaneous epilepsy, and DMCM-induced seizures suggest, furthermore, that I may possess pharmacol. selectivity for a particular type of BZ receptor interaction, perhaps including topog. as well as receptor subtype differentiation.

L3 ANSWER 19 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1984:483849 CAPLUS
DOCUMENT NUMBER: 101:83849
TITLE: Benzodiazepine receptor ligands, receptor occupancy, pharmacological effect and GABA receptor coupling
AUTHOR(S): Braestrup, C.; Schmiechen, R.; Nielsen, M.; Petersen, E. N.
CORPORATE SOURCE: Psychopharmacol. Res. Lab., St Hans Hent. Hosp., Roskilde, DK-4000, Den.
SOURCE: Pharmacol. Benzodiazepines, Proc. Conf. (1983), Meeting Date 1982, 71-85. Editor(s): Usdin, Earl. Verlag Chem.: Weinheim, Fed. Rep. Ger.
CODEN: 52AKA7
DOCUMENT TYPE: Conference
LANGUAGE: English

AB The relation between the receptor binding of benzodiazepine receptor ligands and their pharmacol. activity was determined The apparent failure of some unconventional benzodiazepine ligands to elicit benzodiazepine pharmacol. effects could not be explained by a failure to occupy in vivo any of the known benzodiazepine receptor subclasses. These agents bound to benzodiazepine receptors in a way different from conventional benzodiazepines, probably inducing distinct conformational changes in the benzodiazepine receptor that might reduce GABAergic neurotransmission. In particular, this seems to be the case for methyl-6,7-dimethoxy-4-ethyl-β- carboline-3-carboxylate [82499-00-1], a new convulsive benzodiazepine receptor ligand.

L3 ANSWER 20 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1984:400129 CAPLUS
DOCUMENT NUMBER: 101:129
TITLE: Barbiturate shift as a tool for determination of efficacy of benzodiazepine-receptor ligands
AUTHOR(S): Honore, Tage; Nielsen, Mogens; Braestrup, Claus
CORPORATE SOURCE: Res. Div., A/S Ferrosan, Soeborg, DK-2860, Den.
SOURCE: European Journal of Pharmacology (1984), 100(1), 103-7
CODEN: EJPHAZ; ISSN: 0014-2999
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The change in benzodiazepine(BZ)-receptor affinity for selected BZ receptor ligands, induced by pentobarbital [76-74-4] at 30° in the presence of 200 mM NaCl (barbiturate shift) was investigated. The affinity for benzodiazepines (e.g. flunitrazepam [1622-62-4]) was increased approx. 2-fold by the presence of pentobarbital (1 mM) whereas the affinity for convulsive BZ-receptor ligands (e.g. Me 6,7-dimethoxy-4-ethyl-β- carboline-3-carboxylate [82499-00-1]) was reduced approx. 2-fold. The affinity for BZ-receptor antagonists (e.g. Ro 15-1788 [78755-81-4]) was unaltered by pentobarbital. The results obtained suggest that barbiturate shifts have predictive value in determining the pharmacol. efficacies of BZ-receptor ligands. However, compds. such as CL 218872 [66548-69-4] and ZK 93423 [83910-44-5] would not have been recognized as agonists, notwithstanding their clear agonistic profile in pharmacol. tests.

L3 ANSWER 21 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1984:132430 CAPLUS
DOCUMENT NUMBER: 100:132430
TITLE: Differential pharmacological effects of benzodiazepine receptor inverse agonists
AUTHOR(S): Petersen, E. N.; Jensen, L. H.; Honore, T.; Braestrup, C.
CORPORATE SOURCE: Res. Div., A/S Ferrosan, Soeborg, DK 2860, Den.
SOURCE: Advances in Biochemical Psychopharmacology (1983), 38(Benzodiazepine Recognit. Site Ligands: Biochem. Pharmacol.), 57-64
CODEN: ABPYBL; ISSN: 0065-2229
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Data from expts. with benzodiazepine (BZ) receptor inverse agonists indicate that these ligands induce pharmacol. effects with a rank order varying from paradigm to paradigm. DMCM [82499-00-1] is a very potent convulsant and facilitates some seizures potently (sound-induced, electroshock and picrotoxin); however, it facilitates photically induced seizures in baboons with less potency than some simple β-carbolines and induce anxiety in rats to a lower degree than some non-convulsive β- carbolines. FG 7142 [78538-74-6] and ZK 90886 [89191-81-1] on the other hand are strong anxiogenic compds. that do not induce convulsions but facilitate some seizures (sound-induced and picrotoxin) but not all seizures (electroshock), the latter due to an unknown mechanism. A clear separation between proconvulsant effect and anxiogenic effect thus seems to be possible. The varying rank order of the inverse agonists suggest some BZ receptor heterogeneity. The marked preferential antagonism of DMCM induced seizures in comparison with pentylenetetrazol by some non-benzodiazepines compared to the benzodiazepines further suggest a heterogeneity among the BZ receptors mediating the pharmacol. effects of agonists.

L3 ANSWER 22 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1984:101059 CAPLUS
DOCUMENT NUMBER: 100:101059
TITLE: Binding of 3H-DMCM to benzodiazepine receptors; chloride dependent allosteric regulation mechanisms
AUTHOR(S): Honore, T.; Nielsen, M.; Braestrup, C.
CORPORATE SOURCE: Res. Div., A/S Ferrosan, Soeborg, Den.
SOURCE: Journal of Neural Transmission (1972-1989) (1983), 58(1-2), 83-98
CODEN: JNTMAH; ISSN: 0300-9564
DOCUMENT TYPE: Journal
LANGUAGE: English
AB DMCM (Me 6,7-dimethoxy-4-ethyl-β- carboline-3-carboxylate) is a convulsant agent with neg. efficacy at benzodiazepine (BZ) receptors. [3H]DMCM binds to benzodiazepine receptors in vitro. The sensitivity of [3H]DMCM binding to agents presumed to act on Cl- channels associated with the BZ/GABA-receptor-complex was investigated at 37°. Cl- (200 mM) enhanced the specific binding of [3H]DMCM 4-fold. Similarly the specific binding of [3H]DMCM was enhanced by picrotoxinine in the absence but not in the presence of chloride ions. (+)-Etomidate and pentobarbital reduced the specific [3H]DMCM binding in a partially Cl- dependent and picrotoxinine sensitive manner. The results obtained are consonant with the idea that [3H]DMCM binds to the BZ/GABA-receptor-chloride ionophor complex; furthermore, binding of [3H]DMCM seems to involve a chloride dependent allosteric regulation mechanism.

L3 ANSWER 23 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1983:533558 CAPLUS
DOCUMENT NUMBER: 99:133558
TITLE: Anticonvulsant action in the photosensitive baboon, Papio papio, of a novel β- carboline derivative, ZK 91296
AUTHOR(S): Meldrum, Brian S.; Evans, Mary C.; Braestrup, Claus
CORPORATE SOURCE: Dep. Neurol., Inst. Psychiatry, London, SE5 8AF, UK
SOURCE: European Journal of Pharmacology (1983), 91(2-3), 255-9
CODEN: EJPHAZ; ISSN: 0014-2999
DOCUMENT TYPE: Journal
LANGUAGE: English
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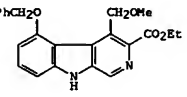

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AB The anticonvulsant action of ZK 91296 (I) [83910-34-3] was studied in baboons with photosensitive epilepsy. Myoclonic and paroxysmal electroencephalog. responses to stroboscopic stimulation are diminished or abolished for 2-4 h after ZK 91296, 0.25-4 mg/kg, i.v. Radioreceptor assay of plasma ZK 91296 indicates rapid clearance (t1/2 α, 5-20 min and β, 60-90 min). In this model of generalized epilepsy, ZK 91296 is similar to diazepam in potency but has a longer duration of action.

L3 ANSWER 24 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1983:533500 CAPLUS
DOCUMENT NUMBER: 99:133500
TITLE: Severe anxiety induced by FG 7142, a β-carboline ligand for benzodiazepine receptors
AUTHOR(S): Dorow, R.; Horowski, R.; Paschelke, G.; Amin, M.; Braestrup, C.
CORPORATE SOURCE: Res. Lab., Schering A.-G., Berlin, D-1000/65, Fed. Rep. Ger.
SOURCE: Lancet (1983), 2(8341), 98-9
CODEN: LANCAO; ISSN: 0023-7507
DOCUMENT TYPE: Journal
LANGUAGE: English

AB In volunteers, FG 7142 (I) [78538-74-6] (100-400 mg, orally) induced severe anxiety. The anxiety was reversed by an i.v. benzodiazepine (lormetazepam) supporting the view that the anxiety induced by I is mediated via benzodiazepine receptors. Thus, I or related substances may provide a means for investigating the pathogenesis and mechanisms of anxiety in man.

L3 ANSWER 25 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1983:533241 CAPLUS
DOCUMENT NUMBER: 99:133241
TITLE: Binding of [3H]DMCM, a convulsive benzodiazepine ligand, to rat brain membranes: preliminary studies
AUTHOR(S): Braestrup, C.; Nielsen, M.; Honore, T.
CORPORATE SOURCE: Res. Div., A/S Ferrosan, Soeborg, DK-2860, Den.
SOURCE: Journal of Neurochemistry (1983), 41(2), 454-65
CODEN: JONRA9; ISSN: 0022-3042
DOCUMENT TYPE: Journal
LANGUAGE: English
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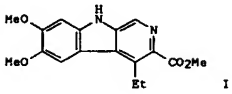


I

AB Methyl 6,7-dimethoxy-4-ethyl-β- carboline-3-carboxylate (DMCM)(I) [82499-00-1] produces convulsions in mice and rats, probably by interacting with benzodiazepine (BZ) receptors. Investigation of specific binding of [3H]DMCM to rat hippocampus and cortex revealed polyphasic saturation curves, indicating a high-affinity site (Kd = 0.5-0.8 nM) and a site with lower affinity (Kd = 3-6 nM). BZ receptor ligands of various chemical classes, but not other agents, displace [3H]DMCM from specific binding sites, indicating that [3H]DMCM binds to Bz receptors in rat brain. The regional distribution of [3H]DMCM binding is complementary to that of the BZ1-selective radioligand, propyl β- carboline-3-carboxylate (PrCC). Specific binding of [3H]DMCM (0.1 nM) was reduced by a GABA receptor agonist to .apprx.20% of the control value at 37° in Cl-containing buffers: the reduction was bicuculline methiodide- and RU 5135-sensitive. The effective concns. of 10 GABA analogs in reducing [3H]DMCM binding correlated closely to published values for their GABA receptor affinity. Specific binding of [3H]DMCM is regulated by unknown factors; e.g., enhanced binding was found by Ag+ treatment of membranes, in the presence of picrotoxinin, or by exposure to UV light in the presence of flunitrazepam. In conclusion, [3H]DMCM appears to bind to high-affinity brain BZ receptors, although the binding properties are different from those of [3H]flunitrazepam and [3H]PrCC. These differences might relate in part to subclass selectivity and in part to differences in efficacy of DMCM at BZ receptors.

L3 ANSWER 26 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1983:464233 CAPLUS
DOCUMENT NUMBER: 99:64233
TITLE: Audiogenic seizures in DBA/2 mice discriminate sensitively between low efficacy benzodiazepine receptor agonists and inverse agonists
AUTHOR(S): Jensen, Leif H.; Petersen, Erling N.; Braestrup, Claus
CORPORATE SOURCE: Res. Div., A/S Ferrosan, Soeborg, DK-2860, Den.
SOURCE: Life Sciences (1983), 33(4), 393-9
CODEN: LIFSAK; ISSN: 0024-3205
DOCUMENT TYPE: Journal
LANGUAGE: English

AB In expts. with audiogenic seizures in mice, several benzodiazepine receptor antagonists exhibited either anticonvulsive (Ro 15-1788 [78755-81-4], PrCC [76808-18-9])or proconvulsive FG 7142 [78538-74-6], ethyl β- carboline-3-carboxylate [74214-62-3], CGS 8216 [77779-60-3]) effects at high receptor occupancy (17-85%), as compared to benzodiazepines and methyl 6,7-dimethoxy-4-ethyl-β- carboline -3-carboxylate [82499-00-1] which had anticonvulsive and proconvulsive actions, resp., at very low receptor occupancy (< 10%). Sensitive distinction between benzodiazepine receptor ligands with low anticonvulsive efficacy (partial agonists) and ligands with low proconvulsive - and maybe anxiogenic - efficacy (partial inverse agonists) can thus be obtained in sound-seizure susceptible mice.

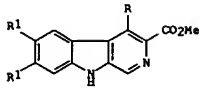
L3 ANSWER 27 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1983:122105 CAPLUS
DOCUMENT NUMBER: 98:122105
TITLE: Enhanced binding of the convulsive ligand DMCM to high-energy irradiated benzodiazepine receptors; evidence of complex receptor structure
AUTHOR(S): Nielsen, M.; Honore, T.; Braestrup, C.
CORPORATE SOURCE: Sct. Hans Ment. Hosp., Roskilde, DK-4000, Den.
SOURCE: Biochemical Pharmacology (1983), 32(1), 177-80
CODEN: BCPCA6; ISSN: 0006-2952
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The binding of 6,7-[methyl-3H]dimethoxy-4-ethyl-β- carboline -3-carboxylate (3H-DMCM) in rat cerebral cortical membrane prepns. was studied after high-energy electron exposure (0.5-2 Mrad/run). [3H]flunitrazepam binding to rat cortex was inactivated by irradiation in a monoexponential decay pattern with increasing electron dose. 3H-DMCM binding inactivation by radiation proceeded in a curvilinear fashion with increasing dose, showing increased binding up to a dose of 7.5 Mrad. The results indicate the occurrence of benzodiazepine receptors as tetrameric subunit complexes.

L3 ANSWER 28 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1983:101090 CAPLUS
DOCUMENT NUMBER: 98:101090
TITLE: Modulation of GABA binding to rat brain membranes by alkyl β- carboline-3-carboxylate esters
AUTHOR(S): Skerritt, John H.; Johnson, Graham A. R.; Braestrup, Claus
CORPORATE SOURCE: Dep. Pharmacol., Univ. Sydney, Sydney, 2006, Australia
SOURCE: European Journal of Pharmacology (1982), 86(2), 299-301
CODEN: EJPHAZ; ISSN: 0014-2999
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The effects of methyl [69954-48-9], ethyl [74214-62-3], and propyl esters [76808-18-9] of β- carboline-3-carboxylic acid were assessed on low-affinity binding of GABA [56-12-2] to rat brain membranes, and the enhancement of such binding by diazepam [439-14-5]. The Pr ester acted as a benzodiazepine agonist in enhancing low-affinity GABA binding, whereas the Me and Et esters acted as benzodiazepine antagonists in reversing the stimulation of GABA binding by diazepam. These effects on low-affinity GABA binding in vitro are consistent with pharmacol. and behavioral actions of these esters in vivo and support the hypothesis that such actions are mediated via a GABA-benzodiazepine receptor complex.

L3 ANSWER 29 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1983:27695 CAPLUS
DOCUMENT NUMBER: 98:27695
TITLE: Convulsive benzodiazepine receptor ligands
AUTHOR(S): Braestrup, Claus; Petersen, Erling N.; Nielsen, Mogens
CORPORATE SOURCE: Sct. Hans Hosp., Roskilde, DK-4000, Den.
SOURCE: Psychopharmacology Bulletin (1982), 18(3), 8-10
CODEN: PSYBB9; ISSN: 0048-5764
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I, R=R1=H
II, R=Et, R1=OMe

AB Evidence is presented which indicates that the convulsant actions of Me β- carboline-3-carboxylate (I) [69954-48-9] and Me 4-ethyl-6,7-dimethoxy-β- carboline-3-carboxylate (II) [82499-00-1] are probably the consequence of interaction with benzodiazepine/GABA receptors. The classification of benzodiazepine receptors into at least 3 groups based on coupling between benzodiazepine receptors and GABA receptors is discussed.

L3 ANSWER 30 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1983:16663 CAPLUS
DOCUMENT NUMBER: 98:16663
TITLE: 3-Substituted β- carbolines and their compositions
INVENTOR(S): Neef, Guenter; Eder, Ulrich; Schmiechen, Ralph; Huth, Andreas; Rathz, Dieter; Seidelmann, Dieter; Kehr, Wolfgang; Palenschat, Dieter; Braestrup, Claus Thyco; et al.
PATENT ASSIGNEE(S): Schering A.-G. , Fed. Rep. Ger.
SOURCE: Eur. Pat. Appl., 90 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 54507	A2	19820623	EP 1981-730122	19811215
EP 54507	A3	19820915		
EP 54507	B1	19880217		
R: AT, BE, CH, DE, FR, GB, IT, LU, NL				
DE 3048318	A1	19820722	DE 1980-3048318	19801217
DE 3136857	A1	19830331	DE 1981-3136857	19810914
SU 1318166	A3	19870615	SU 1981-3354851	19811124
DK 8105542	A	19820618	DK 1981-5542	19811214
DK 170504	B1	19951002		
NO 8104259	A	19820618	NO 1981-4259	19811214
NO 159490	B	19880926		
NO 159490	C	19890104		
JP 57123180	A2	19820731	JP 1981-200237	19811214
JP 05057274	B4	19930823		
DK 8105541	A	19820828	DK 1981-5541	19811214
DK 170022	B1	19950501		
NO 8104260	A	19820830	NO 1981-4260	19811214
NO 158742	B	19880718		
NO 158742	C	19881026		
SE 8107493	A	19820618	SE 1981-7493	19811215
SE 446736	B	19861006		
SE 446736	C	19870122		
SE 8107494	A	19820828	SE 1981-7494	19811215
SE 447573	B	19861124		
SE 447573	C	19870305		
RO 82164	P	19830707	RO 1981-106006	19811215
AT 32513	E	19880315	AT 1981-730122	19811215
IL 64560	A1	19880531	IL 1981-64560	19811215
FI 8104043	A	19820618	FI 1981-4043	19811216
FI 74961	B	19871231		
FI 74961	C	19880411		
FI 8104044	A	19820828	FI 1981-4044	19811216
FI 73427	B	19870630		
FI 73427	C	19871009		
HU 29031	O	19840130	HU 1981-3799	19811216
HU 187395	B	19851228		
CA 1180300	A1	19850604	CA 1981-392470	19811216
DD 161210	A5	19850612	DD 1981-235831	19811216
AU 8178592	A1	19820624	AU 1981-78592	19811217
AU 550450	B2	19870129		
ZA 8108739	A	19821124	ZA 1981-8739	19811217
ES 508073	A1	19830201	ES 1981-508073	19811217

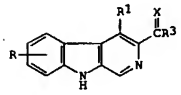
L3 ANSWER 30 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

US 4435403	A	19840306	US 1981-331740	19811217
ES 516976	A1	19831016	ES 1982-516976	19821029
US 4596808	A	19860624	US 1983-556869	19831201
FI 8503073	A	19850812	FI 1985-3073	19850812

PRIORITY APPLN. INFO.:

DE 1980-3048318	A	19801217
DK 1981-913	A	19810227
DE 1981-3136857	A	19810914
EP 1981-730122	A	19811215
FI 1981-4044	A	19811216
US 1981-331740	A2	19811217

OTHER SOURCE(S): CASREACT 98:16663
GI



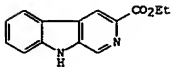
I

AB The psychotropic β- carboline derivs. I [R = H, F, Br, iodo, NO2, CN, Me, CF3, SMe, (un)substituted amino, acyl, P(O)(OR4)2 (R4 = allyl), (un)substituted 1-alkynyl, alkoxycarbonyl, alkylthio, alkylsulfonyl, (un)substituted sulfamoyl; R1 = H, alkyl, alkoxyalkyl, cycloalkyl, aralkyl; X = H2, NOR5 (R5 = H, alkyl, aryl, aralkyl), CHCO2R6 (R6 = H, alkyl), (un)substituted hydrazono, (un)substituted imino; R3 = H, (un)substituted alkoxy, aralkoxy, alkyl, aryl, or cycloalkyl; R3X forms part of a heterocycle] were prepared Thus 3-(hydroxymethyl)-β- carboline was oxidized to give β- carboline -3-carboxaldehyde, which was converted to the oxime. The ED50 of β- carboline-3-carboxaldehyde in the inhibition of 3H-flunitrazepam binding was >250 mg/kg. I were useful as tranquilizers, anticonvulsants, antiaggressives, and anxiolytics.

L3 ANSWER 31 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1982:575000 CAPLUS
DOCUMENT NUMBER: 97:175000
TITLE: Does the reversal of the anticonflict effect of phenobarbital by β-CCE and FG 7142 indicate benzodiazepine receptor-mediated anxiogenic properties?
AUTHOR(S): Petersen, Erling N.; Paschelke, Gert; Kehr, Wolfgang; Nielsen, Mogens; Braestrup, Claus
CORPORATE SOURCE: Res. Div., A/S Ferrosan, Soeborg, DK-2860, Den.
SOURCE: European Journal of Pharmacology (1982), 82(3-4), 217-21
CODEN: EJPHAZ; ISSN: 0014-2999
DOCUMENT TYPE: Journal
LANGUAGE: English

AB In mice and rats, the high affinity ligand for brain benzodiazepine (BZ) receptors β-CCE [74214-63-4], and the more stable congener FG 7142 [78538-74-6], failed to exert anticonflict activity in conflict situations but instead reversed the anticonflict effect of lorazepam. In contrast to Ro 15-1788, β-CCE and FG 7142 also antagonized the anticonflict effect of phenobarbital in rats. This effect suggests that β-CCE and FG 7142 may produce anxiety by either inducing a conformational change in the BZ receptors which is directly opposite to that induced by the benzodiazepines, or binding to a particular subclass of BZ receptors.

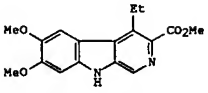
L3 ANSWER 32 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1982:538520 CAPLUS
DOCUMENT NUMBER: 97:138520
TITLE: β- Carbolines and benzodiazepine receptors
AUTHOR(S): Braestrup, Claus; Nielsen, Mogens
CORPORATE SOURCE: St. Hans Hent. Hosp., Roskilde, DK-4000, Den.
SOURCE: Progress in Clinical and Biological Research (1982), 90(Beta-Carbolines Tetrahydroisoquinolines), 227-31
CODEN: PCBRD2; ISSN: 0361-7742
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB The isolation from human urine of ethyl β- carboline -3-carboxylate (I) [74214-62-3], and its metabolism and possible role as endogenous ligands for benzodiazepine receptors of I and related β- carbolines are discussed.

L3 ANSWER 33 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1982:465921 CAPLUS
DOCUMENT NUMBER: 97:65921
TITLE: Interaction of convulsive ligands with benzodiazepine receptors
AUTHOR(S): Braestrup, C.; Schmiechen, R.; Neef, G.; Nielsen, M.; Petersen, E. N.
CORPORATE SOURCE: Res. Lab., A/S Ferrosan, Soeborg, Den.
SOURCE: Science (Washington, DC, United States) (1982), 216(4551), 1241-3
CODEN: SCIEAS; ISSN: 0036-8075
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB The γ-aminobutyric acid (GABA) [56-12-2]-benzodiazepine [12794-10-4] receptor complex, which is composed of distinct proteins embedded in the neuronal plasma membrane, is important for several effects of benzodiazepines, including protection afforded against convulsions. Me 6,7-dimethoxy-4-ethyl-β- carboline-3-carboxylate (I) [82499-00-1], an Et β- carboline-3-carboxylate analog, has high affinity for brain benzodiazepine receptors and is a potent convulsant. Also in contrast to benzodiazepines, I and benzodiazepine receptor ligands similar to I favor benzodiazepine receptors in the non-GABA-stimulated conformation, which may explain their convulsive properties.

L3 ANSWER 34 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1982:400185 CAPLUS
DOCUMENT NUMBER: 97:185
TITLE: Peripheral metabolism of β- carboline -carboxylic acid esters
AUTHOR(S): Simonsen, H.; Nielsen, M.; Braestrup, C.
CORPORATE SOURCE: Psychopharmacol. Res. Lab., St. Hans Hent. Hosp., Roskilde, DK-4000, Den.
SOURCE: Acta Pharmacologica et Toxicologica (1982), 50(2), 89-92
CODEN: APTOA6; ISSN: 0001-6683
DOCUMENT TYPE: Journal
LANGUAGE: English

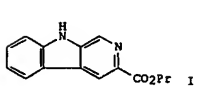
AB Esters of β- carboline-3-carboxylic acid recently were identified as potent inhibitors of brain benzodiazepine receptors in vitro. Et β- carboline-3-carboxylate (β-CCE) [74214-62-3], however, is a rather weak inhibitor in vivo of benzodiazepine receptors in mice. The ED50-value was 91 mg/kg, i.p., 35 min after administration (ED50 is that dose which inhibits by 50% the specific binding of 3H-flunitrazepam i.v.). propyl β- carboline-3-carboxylate [76808-18-9] And probably other β- carboline esters are rapidly metabolized by kidney and liver enzymes but only slightly in brain tissue. ED50 for β-CCE was 2-20 fold lower in mice pretreated with organophosphorus esterase inhibitors, concomitantly with the observation of strong inhibition of liver and kidney hydrolyzing activity, using 3H-Pr β- carboline -3-carboxylate as substrate. Since rat brain contains only approx. 0.1% of the hydrolyzing activity as compared to the liver, some esters of β- carboline-3-carboxylate may thus exhibit only weak effects on benzodiazepine receptors in living animals due to hydrolysis outside the brain.

L3 ANSWER 35 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1982:155345 CAPLUS
DOCUMENT NUMBER: 96:155345
TITLE: GABA reduces binding of 3H-methyl β-carboline-3-carboxylate to brain benzodiazepine receptors
AUTHOR(S): Braestrup, Claus; Nielsen, Mogens
CORPORATE SOURCE: St. Hans Ment. Hosp., Roskilde, DK-4000, Den.
SOURCE: Nature (London, United Kingdom) (1981), 294(5840), 472-4
CODEN: NATUAS; ISSN: 0028-0836
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Studies of the binding of 3H-labeled methyl β- carboline -3-carboxylate (I) [69954-48-9] to membranes prepared from rat forebrain indicated that I binds to benzodiazepine receptors, and that binding was reduced by GABA [56-12-2] in a bicuculline-sensitive manner.

L3 ANSWER 36 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1981:530322 CAPLUS
DOCUMENT NUMBER: 95:130322
TITLE: [3H]propyl β- carboline-3-carboxylate as a selective radioligand for the BZ1 benzodiazepine receptor subclass
AUTHOR(S): Braestrup, Claus; Nielsen, Mogens
CORPORATE SOURCE: A/S Ferrosan, Soeborg, Den.
SOURCE: Journal of Neurochemistry (1981), 37(2), 333-41
CODEN: JONRA9; ISSN: 0022-3042
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Et β- carboline-3-carboxylate (β-CCE) is a mixed-inhibitor of [3H]flunitrazepam ([3H]FNM) binding to benzodiazepine receptors in noncerebellar regions of rat brain. These findings may represent the presence of either receptor multiplicity or neg. cooperativity among benzodiazepine receptors. [3H]Pr β-carboline-3-carboxylate ([3H]PrCC) has previously been shown to bind specifically to benzodiazepine receptors of rat cerebellum. No indication of the presence of true neg. cooperativity was found among benzodiazepine receptors when [3H]PrCC was used as radioligand. However, [3H]PrCC labeled only 57% of [3H]FNM binding sites in rat hippocampus and 71% in rat cerebral cortex, whereas the number of receptors labeled by both ligands was equal in the cerebellum. Hofstee analyses of the shallow inhibition curves seen in hippocampus and cerebral cortex when [3H]FNM binding was inhibited by β-CCE indicate that β-CCE and some other β- carboline-3-carboxylate derivs. interact preferentially with a subclass of receptors, and that the percentage of this subclass is equivalent to the number of receptors labeled by [3H]PrCC. Hence, [3H]PrCC at low concns. (0.3-0.4 + 10-9M) labels a subclass of benzodiazepine receptors, BZ1, whereas another class, BZ2 receptors, are not labeled by [3H]PrCC when filtration assays are used. By parallel detns. of the proportion between [3H]FNM and [3H]PrCC binding, the percentage of BZ1 receptors was calculated in several regions of rat, guinea pig, and calf brain and in mouse forebrain. The values ranged from .apprx.50% in hippocampus to 90% in the guinea pig pons.

L3 ANSWER 37 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1981:473056 CAPLUS
DOCUMENT NUMBER: 95:73056
TITLE: γ-Aminobutyric acid regulation of the benzodiazepine receptor: biochemical evidence for pharmacologically different effects of benzodiazepines and propyl β- carboline-3-carboxylate
AUTHOR(S): Ehlert, Frederick J.; Roeske, William R.; Braestrup, Claus; Yamamura, Susan H.; Yamamura, Henry I.
CORPORATE SOURCE: Psychiat. Intern. Med., Univ. Arizona Health Sci. Cent., Tucson, AZ, 85724, USA
SOURCE: European Journal of Pharmacology (1981), 70(4), 593-5
CODEN: EJPHAZ; ISSN: 0014-2999
DOCUMENT TYPE: Journal
LANGUAGE: English
AB GABA [56-12-2] displayed a Cl--dependent enhancement of flunitrazepam [1622-62-4] binding in the cerebral cortex of rat brain. Propyl β-carboline-3-carboxylate [76808-18-9] binding, however, was not altered by GABA. Et β- carboline-3-carboxylate has been shown to antagonize some of the pharmacol. effects of diazepam. The difference in the effects of GABA on the binding of flunitrazepam and Pr 3-carboline-3-carboxylate may represent a biochem. correlation of this antagonism.

L3 ANSWER 38 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1981:131894 CAPLUS
DOCUMENT NUMBER: 94:131894
TITLE: [3H]Propyl β- carboline-3-carboxylate binds specifically to brain benzodiazepine receptors
AUTHOR(S): Nielsen, Mogens; Schou, Henning; Braestrup, Claus
CORPORATE SOURCE: Psychopharmacol. Res. Lab., St. Hans Mental Hosp., Roskilde, DK-4000, Den.
SOURCE: Journal of Neurochemistry (1981), 36(1), 276-85
CODEN: JONRA9; ISSN: 0022-3042
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

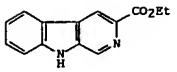


I

AB High-affinity binding of 3H-labeled propyl β- carboline -3-carboxylate (PrCC) (I) [76808-18-9] to rat brain membranes was investigated. [3H]PrCC binds specifically and with high affinity (half-maximal binding at about 1 nM) to rat brain membranes. The regional and subcellular distributions of specific [3H]PrCC binding are similar, but not identical, to the distribution of [3H]flunitrazepam or [3H]diazepam binding. The total nos. of binding sites labeled by [3H]PrCC and [3H]flunitrazepam in rat cerebellum are closely similar, and both ligands bind to cerebellar membranes in a mutually exclusive way. The pharmacol. selectivity of [3H]PrCC and [3H]diazepam binding is almost identical. Binding of [3H]PrCC, like binding of [3H]diazepam, can be increased in vitro by muscimol, GABA and SQ 20.009. Although subtle differences in binding characteristics were observed, these results indicate that [3H]PrCC and benzodiazepines bind to a common recognition site on benzodiazepine receptors.

L3 ANSWER 39 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1981:76266 CAPLUS
DOCUMENT NUMBER: 94:76266
TITLE: β- Carboline-3-carboxylates and benzodiazepine receptors
AUTHOR(S): Braestrup, Claus; Nielsen, Mogens; Skovbjerg, Hanne; Gredal, Ole
CORPORATE SOURCE: Res. Lab., A/S Ferrosan, Soeborg, DK-2860, Den.
SOURCE: Advances in Biochemical Psychopharmacology (1981), 26(GABA Benzodiazepine Recept.), 147-55
CODEN: ABPYBL; ISSN: 0065-2229
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
AB A review with 31 refs.

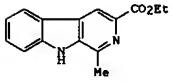
L3 ANSWER 40 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1981:131 CAPLUS
DOCUMENT NUMBER: 94:131
TITLE: Ethyl β- carboline-3-carboxylate shows differential benzodiazepine receptor interaction
AUTHOR(S): Nielsen, Mogens; Braestrup, Claus
CORPORATE SOURCE: Psychopharmacol. Res. Lab., St. Hans Ment. Hosp., Roskilde, DK-4000, Den.
SOURCE: Nature (London, United Kingdom) (1980), 286(5773), 606-7
CODEN: NATUAS; ISSN: 0028-0836
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB Scatchard anal. of flunitrazepam-3H binding to rat forebrain gave plots that were curvilinear in the presence of Et β- carboline -3-carboxylate (I) [74214-62-3] (purified from human urine), whereas plots without I never showed curvature. The curvature was most pronounced with the hippocampus and was absent with the cerebellum. Mixed-type inhibition by I was observed in hippocampal synaptosomal membranes prepared in various ways known to favor different conformational states. Thus, curvilinear Scatchard plots were not dependent on any conformational heterogeneity. The IC50 (concentration which displaced 50% of flunitrazepam-3H binding) was 0.36 and 27 ng/mL in cerebellum and hippocampus, resp. Cerebellar and hippocampal tissue from mice and pigs showed some difference in affinity for I, as did rat brain tissue. Thus, benzodiazepine receptors in cerebellum and hippocampus are not identical. GTP [86-01-1] (10-5-10-4M) had no effect on the affinity of I in either region, indicating that any cooperative interaction was not dependent on GTP-dependent coupling of the benzodiazepine receptor to adenylate cyclase.

L3 ANSWER 41 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1980:461030 CAPLUS
DOCUMENT NUMBER: 93:61030
TITLE: Urinary and brain β- carboline -3-carboxylates as potent inhibitors of brain benzodiazepine receptors
AUTHOR(S): Braestrup, Claus; Nielsen, Mogens; Olsen, Carl Erik
CORPORATE SOURCE: Biochem. Dep., A/S Ferrosan, Soeborg, DK-2860, Den.
SOURCE: Proceedings of the National Academy of Sciences of the United States of America (1980), 77(4), 2288-92
CODEN: PNASA6; ISSN: 0027-8424
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB In searching for possible endogenous ligands for benzodiazepine receptors, a compound was purified 107-fold from human urine by extns., treatment with hot ethanol, and column chromatog. The compound was identified as β- carboline-3-carboxylic acid Et ester (I) [74214-62-3] by mass spectrometry, NMR spectrometry, and synthesis; I was also isolated from brain tissues (20 ng/g) by similar procedures. Very small concns. of I displaced labeled diazepam completely from specific cerebral receptors, but not from liver and kidney binding sites; the concentration causing 50% inhibition of specific diazepam binding (IC50) was 4-7 nM compared to .apprx.5 nM for lorazepam. Specific binding sites for quinuclidinyl benzilate, naloxone, spiroperidol, serotonin, muscimol, and WB 4101 were not affected by I. In contrast to benzodiazepines, I exhibits mixed-type competitive inhibition of forebrain benzodiazepine receptors. A structure activity study showed that tetrahydro-β- carbolines were almost inactive on benzodiazepine receptors. Esters of β- carboline-3-carboxylic acid were active. Substitution of a Me group in the 1st position of the ring structure decreased the activity remarkably. Endogenous ligand for I receptors may be a derivative of β- carboline-3-carboxylic acid.

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FULL ESTIMATED COST                                   123.50     123.71

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                   -29.93     -29.93

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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Sep 16, 2005 (20050916/UP).

=> log y
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
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FULL ESTIMATED COST                                     0.12     123.83

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CA SUBSCRIBER PRICE                                     0.00     -29.93

STN INTERNATIONAL LOGOFF AT 17:16:50 ON 19 SEP 2005
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 NEWS HOURS     STN Operating Hours Plus Help Desk Availability
 NEWS INTER     General Internet Information
 NEWS LOGIN     Welcome Banner and News Items
 NEWS PHONE     Direct Dial and Telecommunication Network Access to STN
 NEWS WWW       CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

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  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 17:22:27 ON 19 SEP 2005

=> fil caplus
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FULL ESTIMATED COST                                       0.21       0.21

FILE 'CAPLUS' ENTERED AT 17:22:35 ON 19 SEP 2005
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L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1984:551824 CAPLUS
DN 101:151824
TI β-Carbolines and pharmaceutical preparations containing them
IN Huth, Andreas; Rahtz, Dieter; Seidelmann, Dieter; Schmiechen, Ralph; Biere, Helmut; Braestrup, Claus Thyco
PA Schering A.-G. , Fed. Rep. Ger.
SO Ger. Offen., 66 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

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OS CASREACT 101:151824

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=> select L1 1 rn
E1 THROUGH E138 ASSIGNED

=> fi reg
FI IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> fil reg
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
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FULL ESTIMATED COST                                   3.52       3.73

FILE 'REGISTRY' ENTERED AT 17:23:06 ON 19 SEP 2005
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STRUCTURE FILE UPDATES:   18 SEP 2005  HIGHEST RN 863382-78-9
DICTIONARY FILE UPDATES:  18 SEP 2005  HIGHEST RN 863382-78-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

*********************************************************************
*                                                                   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                   *
*********************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

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=> d 1-138

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RN 91985-89-6 REGISTRY
ED Entered STN: 16 Nov 1984
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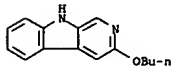
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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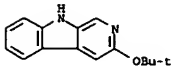

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ED Entered STN: 16 Nov 1984
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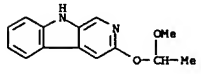

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ED Entered STN: 16 Nov 1984
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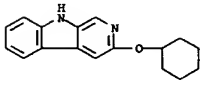

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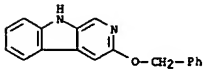

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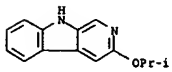

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ED Entered STN: 16 Nov 1984
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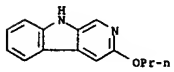
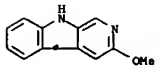
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

11 REFERENCES IN FILE CA (1907 TO DATE)
11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

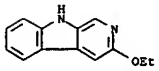
L2 ANSWER 8 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-82-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-methoxy- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN NSC 627681
FS 3D CONCORD
MF C12 H10 N2 O
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

8 REFERENCES IN FILE CA (1907 TO DATE)
8 REFERENCES IN FILE CAPLUS (1907 TO DATE)

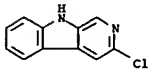
L2 ANSWER 9 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-81-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-ethoxy- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H12 N2 O
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, MEDLINE, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 REFERENCES IN FILE CA (1907 TO DATE)
13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

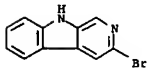
L2 ANSWER 10 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-80-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-chloro- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C11 H7 Cl N2
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

11 REFERENCES IN FILE CA (1907 TO DATE)
11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

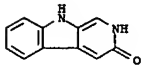
L2 ANSWER 11 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-79-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-bromo- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C11 H7 Br N2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

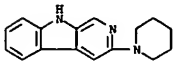
L2 ANSWER 12 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-78-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 3H-Pyrido[3,4-b]indol-3-one, 2,9-dihydro- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C11 H8 N2 O
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

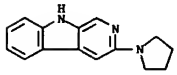
L2 ANSWER 13 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-77-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(1-piperidinyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H17 N3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

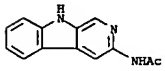
L2 ANSWER 14 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-76-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H15 N3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

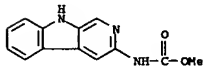
L2 ANSWER 15 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-75-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Acetamide, N-9H-pyrido[3,4-b]indol-3-yl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Pyrido[3,4-b]indole, acetamide deriv.
FS 3D CONCORD
MF C13 H11 N3 O
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

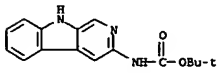
L2 ANSWER 16 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-74-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Carbamic acid, 9H-pyrido[3,4-b]indol-3-yl-, methyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Pyrido[3,4-b]indole, carbamic acid deriv.
OTHER NAMES:
CN 3-[(Methoxycarbonyl)amino]-β-carboline
FS 3D CONCORD
MF C13 H11 N3 O2
LC STN Files: BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, EMBASE, MEDLINE, PROUSDDR, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

11 REFERENCES IN FILE CA (1907 TO DATE)
11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

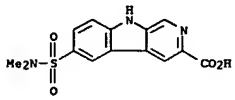
L2 ANSWER 17 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-73-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Carbamic acid, 9H-pyrido[3,4-b]indol-3-yl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Pyrido[3,4-b]indole, carbamic acid deriv.
FS 3D CONCORD
MF C16 H17 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

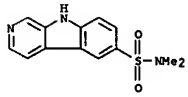
L2 ANSWER 18 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-72-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-[(dimethylamino)sulfonyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H13 N3 O4 S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

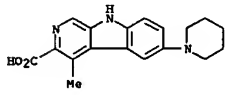
L2 ANSWER 19 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-71-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-6-sulfonamide, N,N-dimethyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H13 N3 O2 S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

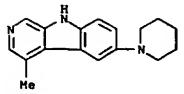
L2 ANSWER 20 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-70-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 4-methyl-6-(1-piperidinyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H19 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

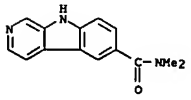
L2 ANSWER 21 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-69-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 4-methyl-6-(1-piperidinyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H19 N3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

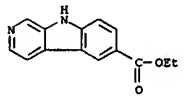
L2 ANSWER 22 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-68-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-6-carboxamide, N,N-dimethyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H13 N3 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

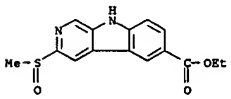
L2 ANSWER 23 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-67-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-6-carboxylic acid, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H12 N2 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

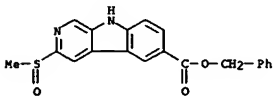
L2 ANSWER 24 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-66-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-6-carboxylic acid, 3-(methylsulfinyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H14 N2 O3 S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

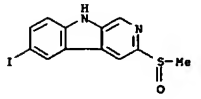
L2 ANSWER 25 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-65-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-6-carboxylic acid, 3-(methylsulfinyl)-, phenylmethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H16 N2 O3 S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

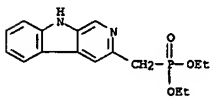
L2 ANSWER 26 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-64-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 6-iodo-3-(methylsulfinyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H9 I N2 O S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

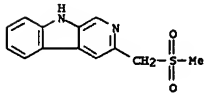
L2 ANSWER 27 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-63-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Phosphonic acid, (9H-pyrido[3,4-b]indol-3-ylmethyl)-, diethyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, phosphonic acid deriv.
FS 3D CONCORD
MF C16 H19 N2 O3 P
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

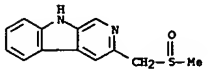
L2 ANSWER 28 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-62-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-[(methylsulfonyl)methyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H12 N2 O2 S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

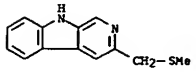
L2 ANSWER 29 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-61-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-[(methylsulfinyl)methyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H12 N2 O S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

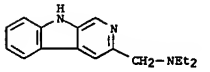
L2 ANSWER 30 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-60-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-[(methylthio)methyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H12 N2 S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

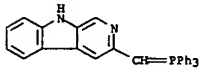
L2 ANSWER 31 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-59-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-methanamine, N,N-diethyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H19 N3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

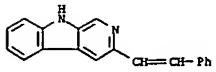
L2 ANSWER 32 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-58-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-[(triphenylphosphoranylidene)methyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C30 H23 N2 P
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

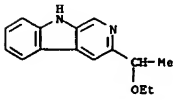
L2 ANSWER 33 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-57-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(2-phenylethenyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H14 N2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

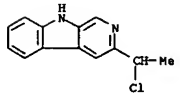
L2 ANSWER 34 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-56-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(1-ethoxyethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H16 N2 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

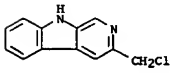
L2 ANSWER 35 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-55-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(1-chloroethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H11 Cl N2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

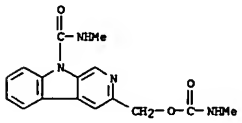
L2 ANSWER 36 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-54-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(chloromethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H9 Cl N2
CI COM
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

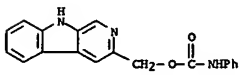
L2 ANSWER 37 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-53-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-9-carboxamide, N-methyl-3-[[[(methylamino)carbonyl]oxy]methyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H16 N4 O3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

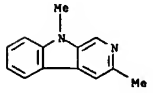
L2 ANSWER 38 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-52-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-methanol, phenylcarbamate (ester) (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H15 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

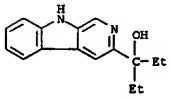
L2 ANSWER 39 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-51-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3,9-dimethyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H12 N2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

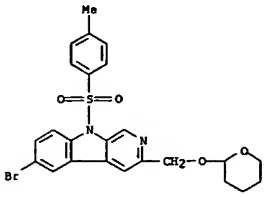
L2 ANSWER 40 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-50-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-methanol, α,α-diethyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H18 N2 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

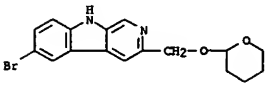
L2 ANSWER 41 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-49-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 6-bromo-9-[(4-methylphenyl)sulfonyl]-3-[[(tetrahydro-2H-pyran-2-yl)oxy]methyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C24 H23 Br N2 O4 S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

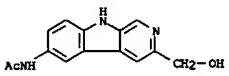
L2 ANSWER 42 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-48-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 6-bromo-3-[[(tetrahydro-2H-pyran-2-yl)oxy]methyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H17 Br N2 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

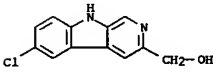
L2 ANSWER 43 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-47-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Acetamide, N-[3-(hydroxymethyl)-9H-pyrido[3,4-b]indol-6-yl]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, acetamide deriv.
FS 3D CONCORD
MF C14 H13 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

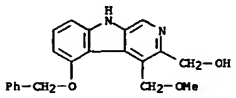
L2 ANSWER 44 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-46-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-methanol, 6-chloro- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H9 Cl N2 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

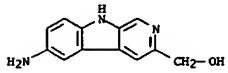
L2 ANSWER 45 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-45-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-methanol, 4-(methoxymethyl)-5-(phenylmethoxy)-(9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C21 H20 N2 O3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

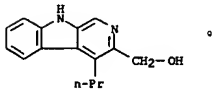
L2 ANSWER 46 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-44-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-methanol, 6-amino- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H11 N3 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

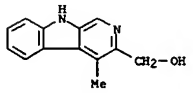
L2 ANSWER 47 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-43-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-methanol, 4-propyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H16 N2 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

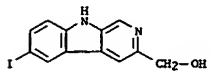
L2 ANSWER 48 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-42-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-methanol, 4-methyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H12 N2 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

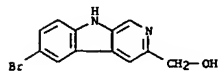
L2 ANSWER 49 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-41-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-methanol, 6-iodo- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H9 I N2 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

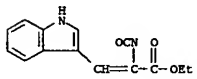
L2 ANSWER 50 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-40-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-methanol, 6-bromo- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H9 Br N2 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

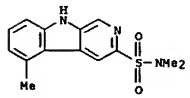
L2 ANSWER 51 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91985-39-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2-Propenoic acid, 3-(1H-indol-3-yl)-2-isocyanato-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H12 N2 O3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

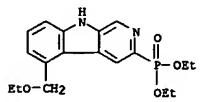
L2 ANSWER 52 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91944-06-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-sulfonamide, N,N,5-trimethyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H15 N3 O2 S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

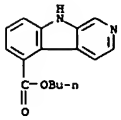
L2 ANSWER 53 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91944-05-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Phosphonic acid, [5-(ethoxymethyl)-9H-pyrido[3,4-b]indol-3-yl]-, diethyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, phosphonic acid deriv.
FS 3D CONCORD
MF C18 H23 N2 O4 P
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

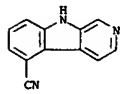
L2 ANSWER 54 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91944-04-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-5-carboxylic acid, butyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H16 N2 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

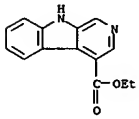
L2 ANSWER 55 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91944-03-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-5-carbonitrile (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H7 N3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

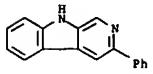
L2 ANSWER 56 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91944-02-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-4-carboxylic acid, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H12 N2 O2
CI COM
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

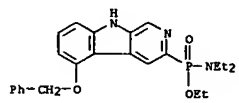
L2 ANSWER 57 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91944-01-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-phenyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H12 N2
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

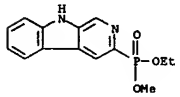
L2 ANSWER 58 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91944-00-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Phosphonamidic acid, N,N-diethyl-P-[5-(phenylmethoxy)-9H-pyrido[3,4-b]indol-3-yl]-, ethyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, phosphonamidic acid deriv.
FS 3D CONCORD
MF C24 H28 N3 O3 P
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

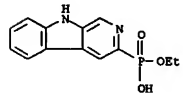
L2 ANSWER 59 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-99-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Phosphonic acid, 9H-pyrido[3,4-b]indol-3-yl-, ethyl methyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, phosphonic acid deriv.
FS 3D CONCORD
MF C14 H15 N2 O3 P
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

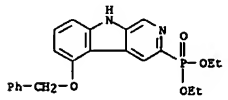
L2 ANSWER 60 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-98-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Phosphonic acid, 9H-pyrido[3,4-b]indol-3-yl-, monoethyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, phosphonic acid deriv.
FS 3D CONCORD
MF C13 H13 N2 O3 P
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

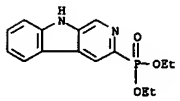
L2 ANSWER 61 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-97-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN Phosphonic acid, [5-(phenylmethoxy)-9H-pyrido[3,4-b]indol-3-yl]-, diethyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, phosphonic acid deriv.
FS 3D CONCORD
MF C22 H23 N2 O4 P
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

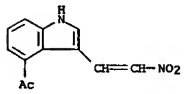
L2 ANSWER 62 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-96-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Phosphonic acid, 9H-pyrido[3,4-b]indol-3-yl-, diethyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, phosphonic acid deriv.
FS 3D CONCORD
MF C15 H17 N2 O3 P
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

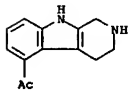
L2 ANSWER 63 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-95-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Ethanone, 1-[3-(2-nitroethenyl)-1H-indol-4-yl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H10 N2 O3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

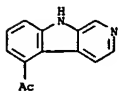
L2 ANSWER 64 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-94-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Ethanone, 1-(2,3,4,9-tetrahydro-1H-pyrido[3,4-b]indol-5-yl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1H-Pyrido[3,4-b]indole, ethanone deriv.
FS 3D CONCORD
MF C13 H14 N2 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

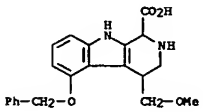
L2 ANSWER 65 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-93-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Ethanone, 1-(9H-pyrido[3,4-b]indol-5-yl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, ethanone deriv.
FS 3D CONCORD
MF C13 H10 N2 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

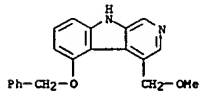
L2 ANSWER 66 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-92-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Pyrido[3,4-b]indole-1-carboxylic acid, 2,3,4,9-tetrahydro-4-(methoxymethyl)-5-(phenylmethoxy)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C21 H22 N2 O4
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

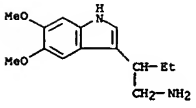
L2 ANSWER 67 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-91-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 4-(methoxymethyl)-5-(phenylmethoxy)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H18 N2 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

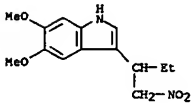
L2 ANSWER 68 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-90-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-3-ethanamine, β-ethyl-5,6-dimethoxy- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H20 N2 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

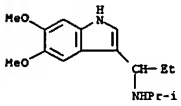
L2 ANSWER 69 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-69-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole, 5,6-dimethoxy-3-[1-(nitromethyl)propyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H18 N2 O4
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

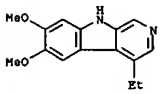
L2 ANSWER 70 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-68-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-3-methanamine, α-ethyl-5,6-dimethoxy-N-(1-methylethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H24 N2 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

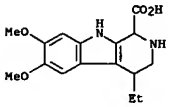
L2 ANSWER 71 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-67-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 4-ethyl-6,7-dimethoxy- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H16 N2 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

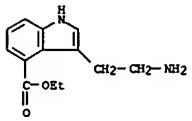
L2 ANSWER 72 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-66-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Pyrido[3,4-b]indole-1-carboxylic acid, 4-ethyl-2,3,4,9-tetrahydro-6,7-dimethoxy- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H20 N2 O4
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

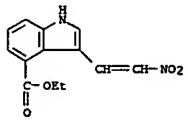
L2 ANSWER 73 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-85-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-4-carboxylic acid, 3-(2-aminoethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H16 N2 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

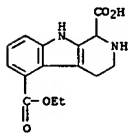
L2 ANSWER 74 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-84-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-4-carboxylic acid, 3-(2-nitroethenyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H12 N2 O4
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

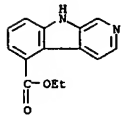
L2 ANSWER 75 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-83-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Pyrido[3,4-b]indole-1,5-dicarboxylic acid, 2,3,4,9-tetrahydro-, 5-ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H16 N2 O4
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

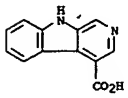
L2 ANSWER 76 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-82-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-5-carboxylic acid, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H12 N2 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

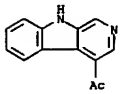
L2 ANSWER 77 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-81-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-4-carboxylic acid (9CI) (CA INDEX NAME)
OTHER NAMES:
CN β-Carboline-4-carboxylic acid
FS 3D CONCORD
MF C12 H8 N2 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

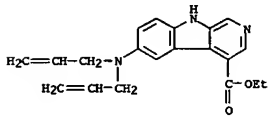
L2 ANSWER 78 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-80-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Ethanone, 1-(9H-pyrido[3,4-b]indol-4-yl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, ethanone deriv.
FS 3D CONCORD
MF C13 H10 N2 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

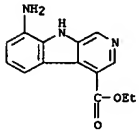
L2 ANSWER 79 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-79-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-4-carboxylic acid, 6-(di-2-propenylamino)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H21 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

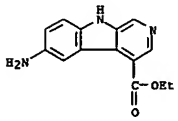
L2 ANSWER 80 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-78-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-4-carboxylic acid, 8-amino-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H13 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

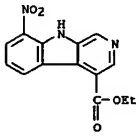
L2 ANSWER 81 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-77-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-4-carboxylic acid, 6-amino-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H13 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 82 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-76-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-4-carboxylic acid, 8-nitro-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H11 N3 O4
LC STN Files: CA, CAPLUS, USPATFULL



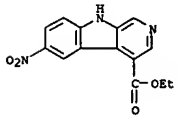
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 83 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-75-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-4-carboxylic acid, 6-nitro-, ethyl ester, mononitrate (9CI) (CA INDEX NAME)
MF C14 H11 N3 O4 . H N O3
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 91943-74-7
CMF C14 H11 N3 O4

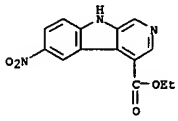


CM 2

CRN 7697-37-2
CMF H N O3

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

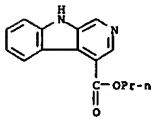
L2 ANSWER 84 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-74-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-4-carboxylic acid, 6-nitro-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H11 N3 O4
CI COM
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

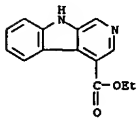
L2 ANSWER 85 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-73-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-4-carboxylic acid, propyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H14 N2 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

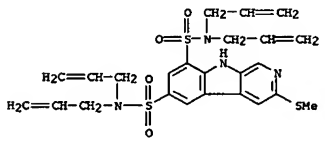
L2 ANSWER 86 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-72-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-4-carboxylic acid, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)
MF C14 H12 N2 O2 . Cl H
LC STN Files: CA, CAPLUS, USPATFULL
CRN (91944-02-4)



● HCl

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

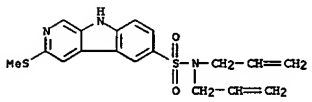
L2 ANSWER 87 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-71-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-6,8-disulfonamide, 3-(methylthio)-N,N,N',N'-tetra-2-propenyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C24 H28 N4 O4 S3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

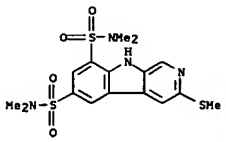
L2 ANSWER 88 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-70-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-6-sulfonamide, 3-(methylthio)-N,N-di-2-propenyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H19 N3 O2 S2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

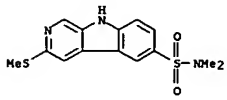
L2 ANSWER 89 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-69-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-6,8-disulfonamide, N,N,N',N'-tetramethyl-3-(methylthio)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H20 N4 O4 S3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

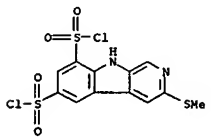
L2 ANSWER 90 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-68-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-6-sulfonamide, N,N-dimethyl-3-(methylthio)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H15 N3 O2 S2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

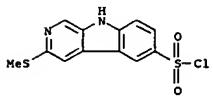
L2 ANSWER 91 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-67-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-6,8-disulfonyl dichloride, 3-(methylthio)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H8 Cl2 N2 O4 S3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

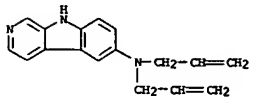
L2 ANSWER 92 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-66-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-6-sulfonyl chloride, 3-(methylthio)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H9 Cl N2 O2 S2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

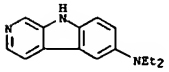
L2 ANSWER 93 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-65-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indol-6-amine, N,N-di-2-propenyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H17 N3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

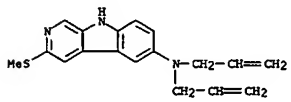
L2 ANSWER 94 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-64-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indol-6-amine, N,N-diethyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H17 N3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

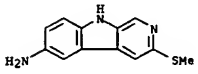
L2 ANSWER 95 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-63-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indol-6-amine, 3-(methylthio)-N,N-di-2-propenyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H19 N3 S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

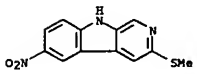
L2 ANSWER 96 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-62-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indol-6-amine, 3-(methylthio)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H11 N3 S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

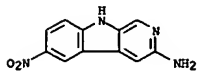
L2 ANSWER 97 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-61-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(methylthio)-6-nitro- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H9 N3 O2 S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

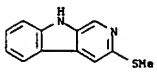
L2 ANSWER 98 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-60-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indol-3-amine, 6-nitro- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C11 H8 N4 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

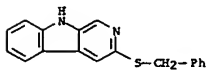
L2 ANSWER 99 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-59-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(methylthio)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H10 N2 S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

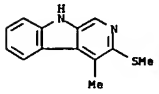
L2 ANSWER 100 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-58-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-[(phenylmethyl)thio]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H14 N2 S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

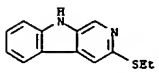
L2 ANSWER 101 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-57-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 4-methyl-3-(methylthio)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H12 N2 S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

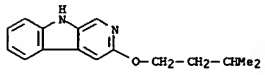
L2 ANSWER 102 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-56-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(ethylthio)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H12 N2 S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

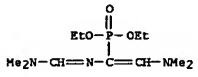
L2 ANSWER 103 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91943-55-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(3-methylbutoxy)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H18 N2 O
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

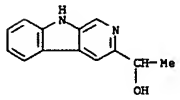
L2 ANSWER 104 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 91164-55-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Phosphonic acid, [2-(dimethylamino)-1-[{(dimethylamino)methylene]amino}eth enyl]-, diethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C11 H24 N3 O3 P
LC STN Files: BEILSTEIN*, CA, CAPLUS, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

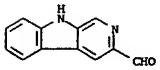
L2 ANSWER 105 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 82596-92-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-methanol, α-methyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3-(1-Hydroxyethyl)-β-carboline
FS 3D CONCORD
MF C13 H12 N2 O
LC STN Files: BEILSTEIN*, CA, CAPLUS, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

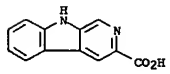
L2 ANSWER 106 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 82596-91-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxaldehyde (9CI) (CA INDEX NAME)
OTHER NAMES:
CN β-Carboline-3-carboxaldehyde
FS 3D CONCORD
MF C12 H8 N2 O
LC STN Files: BEILSTEIN*, BIOBUSINESS, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

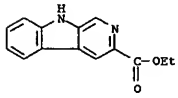
L2 ANSWER 107 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 74214-63-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid (6CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN β-Carboline-3-carboxylic acid
CN 3-Carboxy-β-carboline
CN Norharmane-3-carboxylic acid
CN NSC 623957
FS 3D CONCORD
MF C12 H8 N2 O2
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, EMBASE, MEDLINE, PROMT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

82 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
82 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

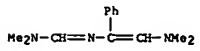
L2 ANSWER 108 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 74214-62-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, ethyl ester (9CI) (CA INDEX NAME)
OTHER NAMES:
CN β-Carboline-3-carboxylic acid ethyl ester
CN β-CCE
CN 3-(Ethoxycarbonyl)-β-carboline
CN 3-Carboxy-β-carboline ethyl ester
CN Ethyl β-carboline-3-carboxylate
CN Ethyl 9H-β-carboline-3-carboxylate
CN Norharman-3-carboxylic acid ethyl ester
CN NSC 610937
CN Ro 15-2538
FS 3D CONCORD
MF C14 H12 N2 O2
CI COM
LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CSCHEM, DDFU, DRUGU, EMBASE, IPA, MEDLINE, MRCK*, MSDS-OHS, PROMT, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

370 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
370 REFERENCES IN FILE CAPLUS (1907 TO DATE)

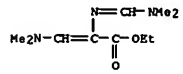
L2 ANSWER 109 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 74119-37-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Methanimidamide, N'-[2-(dimethylamino)-1-phenylethenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)
MF C13 H19 N3
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

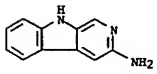
L2 ANSWER 110 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 74119-32-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2-Propenoic acid, 3-(dimethylamino)-2-[[(dimethylamino)methylene]amino]-, ethyl ester (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Ethyl 3-dimethylamino-2-[[(dimethylamino)methylene]amino]acrylate
FS 3D CONCORD
MF C10 H19 N3 O2
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

15 REFERENCES IN FILE CA (1907 TO DATE)
15 REFERENCES IN FILE CAPLUS (1907 TO DATE)

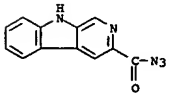
L2 ANSWER 111 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 73834-77-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indol-3-amine (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3-Amino-β-carboline
CN 3-Amino-9H-pyrido[3,4-b]indole
FS 3D CONCORD
MF C11 H9 N3
CI COM
LC STN Files: BEILSTEIN*, BIOBUSINESS, CA, CANCERLIT, CAPLUS, CASREACT, CHEMCATS, MEDLINE, RTECS*, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

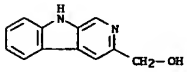
38 REFERENCES IN FILE CA (1907 TO DATE)
38 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 112 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 73834-75-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carbonyl azide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H7 N5 O
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



8 REFERENCES IN FILE CA (1907 TO DATE)
8 REFERENCES IN FILE CAPLUS (1907 TO DATE)

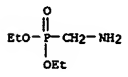
L2 ANSWER 113 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 65474-79-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-methanol (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3-Hydroxymethyl-β-carboline
FS 3D CONCORD
MF C12 H10 N2 O
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CSCHEM, EMBASE, MEDLINE, MRCK*, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

35 REFERENCES IN FILE CA (1907 TO DATE)
35 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 114 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 50917-72-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Phosphonic acid, (aminomethyl)-, diethyl ester (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Aminomethylphosphonic acid diethyl ester
CN Diethyl (aminomethyl)phosphonate
CN Diethyl aminomethanephosphonate
FS 3D CONCORD
MF C5 H14 N O3 P
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, IFICDB, IFIPAT, IFIUDB, SPECINFO, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

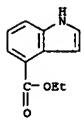
125 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
125 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 115 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 50614-86-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Ethanone, 1-(1H-indol-4-yl)- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 4-Acetylindole
FS 3D CONCORD
MF C10 H9 N O
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

11 REFERENCES IN FILE CA (1907 TO DATE)
11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 116 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 50614-84-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-4-carboxylic acid, ethyl ester (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Ethyl 4-indolecarboxylate
FS 3D CONCORD
MF C11 H11 N O2
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, CSCHEM, MSDS-OHS, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

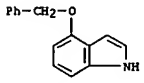
15 REFERENCES IN FILE CA (1907 TO DATE)
15 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 117 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 26386-88-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Phosphorazidic acid, diphenyl ester (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Azidodiphenoxyoxophosphorane
CN Diphenyl azidophosphate
CN Diphenyl phosphorazidate
CN Diphenylphosphorazide
CN Diphenylphosphoryl azide
CN DPPA
CN O,O-Diphenylphosphoryl azide
CN Phosphoric acid diphenyl ester azide
FS 3D CONCORD
DR 154113-45-8
MF C12 H10 N3 O3 P
CI COM
LC STN Files: ADISNEWS, AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CANCERLIT, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, EMBASE, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PS, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

830 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
835 REFERENCES IN FILE CAPLUS (1907 TO DATE)

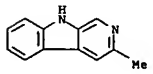
L2 ANSWER 118 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 20289-26-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole, 4-(phenylmethoxy)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Indole, 4-(benzyloxy)- (8CI)
OTHER NAMES:
CN 4-(Phenylmethoxy)-1H-indole
CN 4-Benzyloxy-1H-indole
CN 4-Benzyloxyindole
CN NSC 92539
FS 3D CONCORD
MF C15 H13 N O
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

64 REFERENCES IN FILE CA (1907 TO DATE)
64 REFERENCES IN FILE CAPLUS (1907 TO DATE)

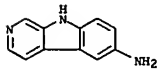
L2 ANSWER 119 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 18203-06-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3-Methylnorharman
FS 3D CONCORD
MF C12 H10 N2
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

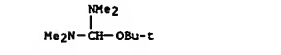
L2 ANSWER 120 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 6453-27-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indol-6-amine (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, 6-amino- (6CI, 7CI, 8CI)
OTHER NAMES:
CN 6-Amino-β-carboline
FS 3D CONCORD
MF C11 H9 N3
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMINFORMRX, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

18 REFERENCES IN FILE CA (1907 TO DATE)
18 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

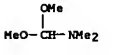
L2 ANSWER 121 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 5815-08-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Methanediamine, 1-(1,1-dimethylethoxy)-N,N,N',N'-tetramethyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Methanediamine, 1-tert-butoxy-N,N,N',N'-tetramethyl- (7CI, 8CI)
OTHER NAMES:
CN 1-(1,1-Dimethylethoxy)-N,N,N',N'-tetramethylmethanediamine
CN 1-tert-Butoxy-N,N,N',N'-tetramethylmethanediamine
CN Bis(dimethylamino)-tert-butoxymethane
CN Bredereck's reagent
CN C-tert-Butoxy-N,N,N',N'-tetramethylmethanediamine
CN tert-Butoxybis(dimethylamino)methane
CN tert-Butoxymethylenebis(dimethylamine)
FS 3D CONCORD
MF C9 H22 N2 O
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, PS, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

298 REFERENCES IN FILE CA (1907 TO DATE)
299 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 122 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 4637-24-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Methanamine, 1,1-dimethoxy-N,N-dimethyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Trimethylamine, 1,1-dimethoxy- (6CI, 7CI, 8CI)
OTHER NAMES:
CN (Dimethoxymethyl)dimethylamine
CN (Dimethylamino)dimethoxymethane
CN (Dimethylamino)formaldehyde dimethyl acetal
CN α,α-Dimethoxytrimethylamine
CN 1,1-Dimethoxy-N,N-dimethylmethanamine
CN 1,1-Dimethoxytrimethylamine
CN Dimethoxy(dimethylamino)methane
CN Dimethoxy-N,N-dimethylmethanamine
CN Dimethoxy-N,N-dimethylmethylamine
CN Dimethyl dimethylformamide acetal
CN Dimethylformamide dimethyl acetal
CN DMF dimethyl acetal
CN DMFDMA
CN Methyl-8
CN N-(Dimethoxymethyl)-N,N-dimethylamine
CN N-(Dimethoxymethyl)dimethylamine
FS 3D CONCORD
MF C5 H13 N O2
LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, PIRA, PS, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

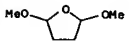
2644 REFERENCES IN FILE CA (1907 TO DATE)
11 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2653 REFERENCES IN FILE CAPLUS (1907 TO DATE)
14 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 123 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 1190-92-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Ethenamine, N,N-dimethyl-2-nitro- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Vinylamine, N,N-dimethyl-2-nitro- (6CI, 7CI, 8CI)
OTHER NAMES:
CN 1-(Dimethylamino)-2-nitroethylene
CN 1-(N,N-Dimethylamino)-2-nitroethylene
CN 1-Nitro-2-(dimethylamino)ethylene
CN N,N-Dimethyl-2-nitrovinylamine
CN N-(2-Nitrovinyl)dimethylamine
FS 3D CONCORD
MF C4 H8 N2 O2
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CSCHEM, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

87 REFERENCES IN FILE CA (1907 TO DATE)
88 REFERENCES IN FILE CAPLUS (1907 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 124 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 696-59-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Furan, tetrahydro-2,5-dimethoxy- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 2,5-Dimethoxytetrahydrofuran
CN Dimethoxytetrahydrofuran
CN NSC 7911
CN Tetrahydro-2,5-dimethoxyfuran
FS 3D CONCORD
MF C6 H12 O3
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM*, EMBASE, HODOC*, IFICDB, IFIPAT, IFIUDB, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

899 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
903 REFERENCES IN FILE CAPLUS (1907 TO DATE)
9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 125 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 624-83-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Methane, isocyanato- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Isocyanic acid, methyl ester (6CI, 8CI)
OTHER NAMES:
CN Isocyanatomethane
CN Methyl isocyanate
CN MIC
CN NSC 64323
FS 3D CONCORD
MF C2 H3 N O
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SPECINFO, TOXCENTER, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

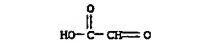
3551 REFERENCES IN FILE CA (1907 TO DATE)
48 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3554 REFERENCES IN FILE CAPLUS (1907 TO DATE)
22 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 126 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 603-35-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Phosphine, triphenyl- (7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN EPCAT-P
CN JC 263
CN NSC 10
CN NSC 215203
CN P 100
CN P 100 (accelerator)
CN PP 360
CN TPP
CN Triphenylphosphane
CN Triphenylphosphide
CN Triphenylphosphine
CN Triphenylphosphorus
FS 3D CONCORD
DR 112771-47-8
MF C18 H15 P
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM*, DIPPR*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

18873 REFERENCES IN FILE CA (1907 TO DATE)
2669 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
18904 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

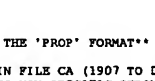
L2 ANSWER 127 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 298-12-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN Acetic acid, oxo- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glyoxylic acid (8CI)
OTHER NAMES:
CN α-Ketoacetic acid
CN Formylformic acid
CN Glyoxalic acid
CN NSC 27785
CN Oxalaldehydic acid
CN Oxoacetic acid
CN Oxoethanoic acid
FS 3D CONCORD
MF C2 H2 O3
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4898 REFERENCES IN FILE CA (1907 TO DATE)
224 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
4904 REFERENCES IN FILE CAPLUS (1907 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 128 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 122-52-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Phosphorous acid, triethyl ester (8CI, 9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Ethyl phosphite, (EtO)3P (7CI)
CN Ethyl phosphite, Et3PO3 (4CI)
OTHER NAMES:
CN NSC 5284
CN Triethoxyphosphine
CN Triethyl phosphite
CN Tris(ethoxy)phosphine
FS 3D CONCORD
MF C6 H15 O3 P
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DETHERM*, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

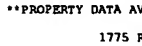
5169 REFERENCES IN FILE CA (1907 TO DATE)
96 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
5179 REFERENCES IN FILE CAPLUS (1907 TO DATE)
74 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 129 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 120-72-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Indole (8CI)
OTHER NAMES:
CN 1-Azaindene
CN 1-Benzazole
CN 2,3-Benzopyrrole
CN Benzo[b]pyrrole
CN Ketole
CN NSC 1964
FS 3D CONCORD
MF C8 H7 N
CI COM, RPS
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

12365 REFERENCES IN FILE CA (1907 TO DATE)
2015 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
12390 REFERENCES IN FILE CAPLUS (1907 TO DATE)
6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 130 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 111-24-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Pentane, 1,5-dibromo- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,5-Dibromopentane
CN 1,5-Pentanedibromide
CN NSC 5373
CN Pentamethylene bromide
CN Pentamethylene dibromide
FS 3D CONCORD
MF C5 H10 Br2
CI COM
LC STN Files: BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM*, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, NIOSHTIC, PIRA, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

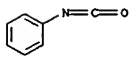
1775 REFERENCES IN FILE CA (1907 TO DATE)
10 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1779 REFERENCES IN FILE CAPLUS (1907 TO DATE)
32 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 131 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 106-95-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1-Propene, 3-bromo- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Propene, 3-bromo- (8CI)
OTHER NAMES:
CN 1-Bromo-2-propene
CN 2-Propenyl bromide
CN 3-Bromo-1-propene
CN 3-Bromopropene
CN 3-Bromopropylene
CN Allyl bromide
CN NSC 7596
FS 3D CONCORD
MF C3 H5 Br
CI COM
LC STN Files: ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13501 REFERENCES IN FILE CA (1907 TO DATE)
213 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
13529 REFERENCES IN FILE CAPLUS (1907 TO DATE)
7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

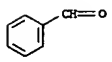
L2 ANSWER 132 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 103-71-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzene, isocyanato- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Isocyanic acid, phenyl ester (6CI, 8CI)
OTHER NAMES:
CN Carbanil
CN Isocyanatobenzene
CN Mondur P
CN NSC 74454
CN Phenyl carbonimide
CN Phenyl isocyanate
CN Phenylcarbimide
FS 3D CONCORD
MF C7 H5 N O
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, DIPPR*, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

8777 REFERENCES IN FILE CA (1907 TO DATE)
465 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
8795 REFERENCES IN FILE CAPLUS (1907 TO DATE)
119 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 133 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 100-52-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzaldehyde (7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Artificial Almond Oil
CN Benzaldehyde FFC
CN Benzenecarbonal
CN Benzenecarboxaldehyde
CN Benzoic acid aldehyde
CN Benzoic aldehyde
CN NSC 7917
CN Phenylformaldehyde
CN Phenylmethanal
FS 3D CONCORD
MF C7 H6 O
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SCISEARCH, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



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886 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
52553 REFERENCES IN FILE CAPLUS (1907 TO DATE)
4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

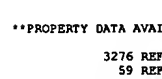
L2 ANSWER 134 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 100-51-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenemethanol (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzyl alcohol (8CI)
OTHER NAMES:
CN (Hydroxymethyl)benzene
CN α-Hydroxytoluene
CN α-Toluenol
CN Benzenecarbinol
CN Benzylic alcohol
CN NSC 8044
CN Phenylcarbinol
CN Phenylmethanol
CN Phenylmethyl alcohol
CN Sunmorl BK 20
CN TB 13G
FS 3D CONCORD
DR 1336-27-2, 185532-71-2
MF C7 H8 O
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SCISEARCH, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)

HO-CH_2-Ph

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

22110 REFERENCES IN FILE CA (1907 TO DATE)
520 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
22152 REFERENCES IN FILE CAPLUS (1907 TO DATE)
7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 135 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 79-37-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Ethanedioyl dichloride (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Oxalyl chloride (6CI, 8CI)
OTHER NAMES:
CN Ethanedioyl chloride
CN Oxalic acid chloride
CN Oxalic acid dichloride
CN Oxalic dichloride
CN Oxaloyl chloride
CN Oxaloyl dichloride
CN Oxalyl dichloride
FS 3D CONCORD
MF C2 Cl2 O2
CI COM
LC STN Files: BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DETHERM*, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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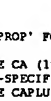
59 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3285 REFERENCES IN FILE CAPLUS (1907 TO DATE)
49 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 136 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 75-65-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2-Propanol, 2-methyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN tert-Butyl alcohol (8CI)
OTHER NAMES:
CN 1,1-Dimethylethanol
CN 2-Methyl-2-propanol
CN t-Butanol
CN t-Butanol
CN tert-Butanol
CN Trimethylcarbinol
CN Trimethylmethanol
FS 3D CONCORD
MF C4 H10 O
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

16761 REFERENCES IN FILE CA (1907 TO DATE)
295 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
16786 REFERENCES IN FILE CAPLUS (1907 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 137 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 74-96-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN Ethane, bromo- (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Bromic ether
CN Bromoethane
CN Ethyl bromide
CN F 160B1
CN Hydrobromic ether
CN Monobromoethane
CN NSC 8824
FS 3D CONCORD
MF C2 H5 Br
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, DIPPR*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6522 REFERENCES IN FILE CA (1907 TO DATE)
112 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
6532 REFERENCES IN FILE CAPLUS (1907 TO DATE)
6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 138 OF 138 REGISTRY COPYRIGHT 2005 ACS on STN
RN 74-93-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Methanethiol (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Mercaptomethane
CN Methyl mercaptan
FS 3D CONCORD
DR 63933-47-1
MF C H4 S
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, PS, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7106 REFERENCES IN FILE CA (1907 TO DATE)
78 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
7112 REFERENCES IN FILE CAPLUS (1907 TO DATE)
6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
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FULL ESTIMATED COST                                   257.36     261.09

FILE 'CAPLUS' ENTERED AT 17:27:39 ON 19 SEP 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 19 Sep 2005  VOL 143 ISS 13
FILE LAST UPDATED: 18 Sep 2005  (20050918/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

=> s us4435403/pn
L3            1 US4435403/PN

=> d
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L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1983:16663 CAPLUS

ON 98:16663

TI 3-Substituted β-carbolines and their compositions

IN Neef, Guenter; Eder, Ulrich; Schmiechen, Ralph; Huth, Andreas; Rathz, Dieter; Seidelmann, Dieter; Kehr, Wolfgang; Palenschat, Dieter; Braestrup, Claus Thyco; et al.

PA Schering A.-G. , Fed. Rep. Ger.

SO Eur. Pat. Appl., 90 pp.
CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 54507	A2	19820623	EP 1981-730122	19811215
	EP 54507	A3	19820915		
	EP 54507	B1	19880217		
	R: AT, BE, CH, DE, FR, GB, IT, LU, NL				
	DE 3048318	A1	19820722	DE 1980-3048318	19801217
	DE 3136857	A1	19830331	DE 1981-3136857	19810914
	SU 1318166	A3	19870615	SU 1981-3354851	19811124
	DK 8105542	A	19820618	DK 1981-5542	19811214
	DK 170504	B1	19951002		
	NO 8104259	A	19820618	NO 1981-4259	19811214
	NO 159490	B	19880926		
	NO 159490	C	19890104		
	JP 57123180	A2	19820731	JP 1981-200237	19811214
	JP 05057274	B4	19930823		
	DK 8105541	A	19820828	DK 1981-5541	19811214
	DK 170022	B1	19950501		
	NO 8104260	A	19820830	NO 1981-4260	19811214
	NO 158742	B	19880718		
	NO 158742	C	19881026		
	SE 8107493	A	19820618	SE 1981-7493	19811215
	SE 446736	B	19861006		
	SE 446736	C	19870122		
	SE 8107494	A	19820828	SE 1981-7494	19811215
	SE 447573	B	19861124		
	SE 447573	C	19870305		
	RO 82164	P	19830707	RO 1981-106006	19811215
	AT 32513	E	19880315	AT 1981-730122	19811215
	IL 64560	A1	19880531	IL 1981-64560	19811215
	FI 8104043	A	19820618	FI 1981-4043	19811216
	FI 74961	B	19871231		
	FI 74961	C	19880411		
	FI 8104044	A	19820828	FI 1981-4044	19811216
	FI 73427	B	19870630		
	FI 73427	C	19871009		
	HU 29031	O	19840130	HU 1981-3799	19811216
	HU 187395	B	19851228		
	CA 1188300	A1	19850604	CA 1981-392470	19811216
	DD 161210	A5	19850612	DD 1981-235831	19811216
	AU 8178592	A1	19820624	AU 1981-78592	19811217
	AU 558450	B2	19870129		
	ZA 8108739	A	19821124	ZA 1981-8739	19811217
	ES 508073	A1	19830201	ES 1981-508073	19811217
	US 4435403	A	19840306	US 1981-331740	19811217 <--
	ES 516976	A1	19831016	ES 1982-516976	19821029
	US 4596808	A	19860624	US 1983-556869	19831201
	FI 8503073	A	19850812	FI 1985-3073	19850812

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

PRAI	DE 1980-3048318	A	19801217
	DK 1981-913	A	19810227
	DE 1981-3136857	A	19810914
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	FI 1981-4044	A	19811216
	US 1981-331740	A2	19811217

OS CASREACT 98:16663

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E139 THROUGH E344 ASSIGNED

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                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       3.52     264.61

FILE 'REGISTRY' ENTERED AT 17:28:30 ON 19 SEP 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   18 SEP 2005  HIGHEST RN 863382-78-9
DICTIONARY FILE UPDATES:  18 SEP 2005  HIGHEST RN 863382-78-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

*********************************************************************
*                                                                   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                   *
*********************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> s e139-e344
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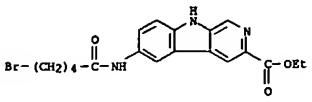
=> d L4 1-206

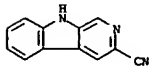
L4 ANSWER 1 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-49-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-[(5-bromo-1-oxopentyl)amino]-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H20 Br N3 O3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

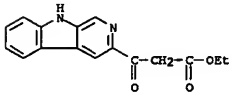
L4 ANSWER 2 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-48-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carbonitrile (9CI) (CA INDEX NAME)
OTHER NAMES:
CN β-Carboline-3-carbonitrile
CN 3-Cyano-β-carboline
FS 3D CONCORD
MF C12 H7 N3
CI COM
LC STN Files: BIOSIS, CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

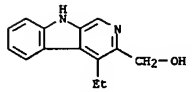
L4 ANSWER 3 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-47-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-propanoic acid, β-oxo-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H14 N2 O3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

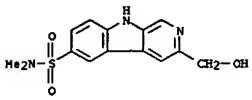
L4 ANSWER 4 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-46-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-methanol, 4-ethyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H14 N2 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

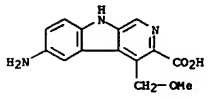
L4 ANSWER 5 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-45-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-6-sulfonamide, 3-(hydroxymethyl)-N,N-dimethyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H15 N3 O3 S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 6 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-44-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-amino-4-(methoxymethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H13 N3 O3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

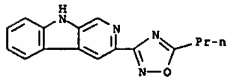
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 7 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-43-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2-Propanamine, N-(2-methoxyethylidene)- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN N-Isopropyl-N-(2-methoxyethylidene)amine
FS 3D CONCORD
MF C6 H13 N O
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

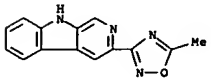
L4 ANSWER 8 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-42-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(5-propyl-1,2,4-oxadiazol-3-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H14 N4 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

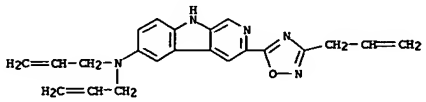
L4 ANSWER 9 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-41-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(5-methyl-1,2,4-oxadiazol-3-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H10 N4 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

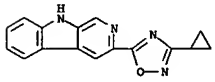
L4 ANSWER 10 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-40-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indol-6-amine, N,N-di-2-propenyl-3-[3-(2-propenyl)-1,2,4-oxadiazol-5-yl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C22 H21 N5 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

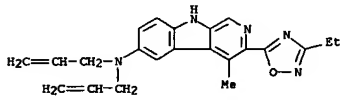
L4 ANSWER 11 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-39-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(3-cyclopropyl-1,2,4-oxadiazol-5-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H12 N4 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 12 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-38-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indol-6-amine, 3-(3-ethyl-1,2,4-oxadiazol-5-yl)-4-methyl-N,N-di-2-propenyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C22 H23 N5 O
LC STN Files: CA, CAPLUS, USPATFULL



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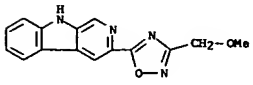
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

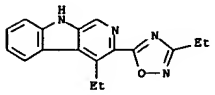
L4 ANSWER 13 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-37-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-[3-(methoxymethyl)-1,2,4-oxadiazol-5-yl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H12 N4 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

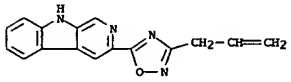
L4 ANSWER 14 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-36-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 4-ethyl-3-(3-ethyl-1,2,4-oxadiazol-5-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H16 N4 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

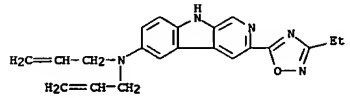
L4 ANSWER 15 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-35-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(3-(2-propenyl)-1,2,4-oxadiazol-5-yl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H12 N4 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

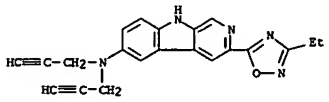
L4 ANSWER 16 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-34-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indol-6-amine, 3-(3-ethyl-1,2,4-oxadiazol-5-yl)-N,N-di-2-propenyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C21 H21 N5 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

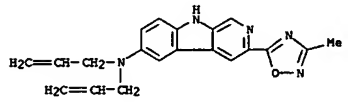
L4 ANSWER 17 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-33-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indol-6-amine, 3-(3-ethyl-1,2,4-oxadiazol-5-yl)-N,N-di-2-propynyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C21 H17 N5 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

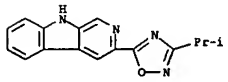
L4 ANSWER 18 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-32-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indol-6-amine, 3-(3-methyl-1,2,4-oxadiazol-5-yl)-N,N-di-2-propenyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H19 N5 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

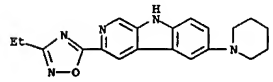
L4 ANSWER 19 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-31-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-[3-(1-methylethyl)-1,2,4-oxadiazol-5-yl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H14 N4 O
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

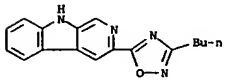
L4 ANSWER 20 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-30-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(3-ethyl-1,2,4-oxadiazol-5-yl)-6-(1-piperidinyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H21 N5 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

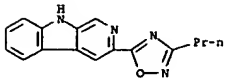
L4 ANSWER 21 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-29-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(3-butyl-1,2,4-oxadiazol-5-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H16 N4 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

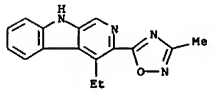
L4 ANSWER 22 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-28-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(3-propyl-1,2,4-oxadiazol-5-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H14 N4 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

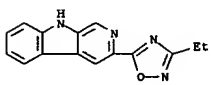
L4 ANSWER 23 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-27-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 4-ethyl-3-(3-methyl-1,2,4-oxadiazol-5-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H14 N4 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

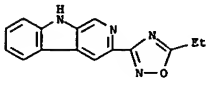
L4 ANSWER 24 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-26-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(3-ethyl-1,2,4-oxadiazol-5-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H12 N4 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

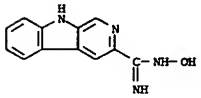
L4 ANSWER 25 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-25-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(5-ethyl-1,2,4-oxadiazol-3-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H12 N4 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

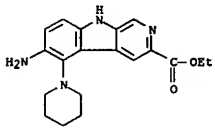
L4 ANSWER 26 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-24-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboximidamide, N-hydroxy- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H10 N4 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

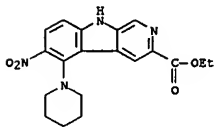
L4 ANSWER 27 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-23-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-amino-5-(1-piperidinyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H22 N4 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

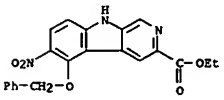
L4 ANSWER 28 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-22-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-nitro-5-(1-piperidinyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H20 N4 O4
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

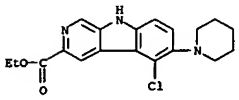
L4 ANSWER 29 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-21-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-nitro-5-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C21 H17 N3 O5
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

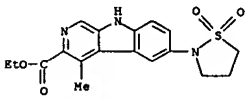
L4 ANSWER 30 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-20-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 5-chloro-6-(1-piperidinyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H20 Cl N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

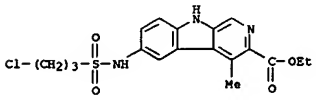
L4 ANSWER 31 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-19-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(1,1-dioxido-2-isothiazolidinyl)-4-methyl-, ethyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(2-isothiazolidinyl)-4-methyl-, ethyl ester, S,S-dioxide
CN Isothiazolidine, 9H-pyrido[3,4-b]indole-3-carboxylic acid deriv.
FS 3D CONCORD
MF C18 H19 N3 O4 S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

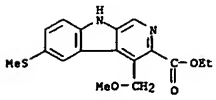
L4 ANSWER 32 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-18-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-[[(3-chloropropyl)sulfonyl]amino]-4-methyl-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H20 Cl N3 O4 S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

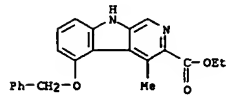
L4 ANSWER 33 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-17-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 4-(methoxymethyl)-6-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H18 N2 O3 S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

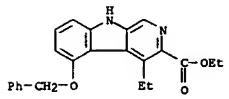
L4 ANSWER 34 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-16-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 4-methyl-5-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C22 H20 N2 O3
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

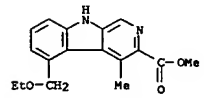
L4 ANSWER 35 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-15-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 4-ethyl-5-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C23 H22 N2 O3
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

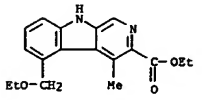
L4 ANSWER 36 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-14-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 5-(ethoxymethyl)-4-methyl-, methyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H18 N2 O3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

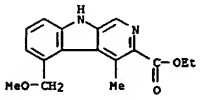
L4 ANSWER 37 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-13-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 5-(ethoxymethyl)-4-methyl-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H20 N2 O3
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

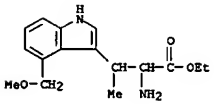
L4 ANSWER 38 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-12-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 5-(methoxymethyl)-4-methyl-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H18 N2 O3
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

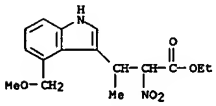
L4 ANSWER 39 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-11-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Tryptophan, 4-(methoxymethyl)-β-methyl-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H22 N2 O3
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

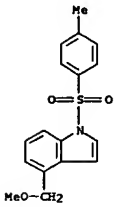
L4 ANSWER 40 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-10-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-3-propanoic acid, 4-(methoxymethyl)-β-methyl-α-nitro-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H20 N2 O5
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

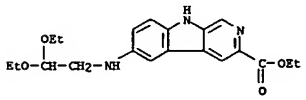
L4 ANSWER 41 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-09-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole, 4-(methoxymethyl)-1-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H17 N O3 S
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

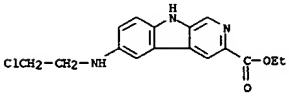
L4 ANSWER 42 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-08-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-[(2,2-diethoxyethyl)amino]-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H25 N3 O4
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

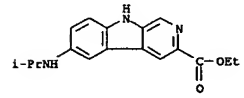
L4 ANSWER 43 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-07-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-[(2-chloroethyl)amino]-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H16 Cl N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 44 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-06-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-[(1-methylethyl)amino]-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H19 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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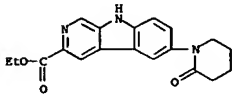
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

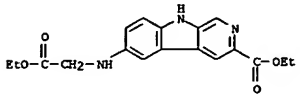
L4 ANSWER 45 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-05-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(2-oxo-1-piperidinyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H19 N3 O3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

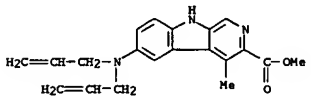
L4 ANSWER 46 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-04-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-[(2-ethoxy-2-oxoethyl)amino]-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H19 N3 O4
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

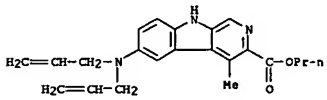
L4 ANSWER 47 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-03-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(di-2-propenylamino)-4-methyl-, methyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H21 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

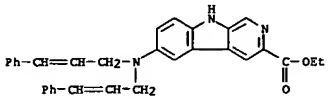
L4 ANSWER 48 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-02-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(di-2-propenylamino)-4-methyl-, propyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C22 H25 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

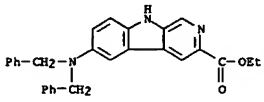
L4 ANSWER 49 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-01-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-[bis(3-phenyl-2-propenyl)amino]-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C32 H29 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

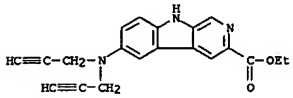
L4 ANSWER 50 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83911-00-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-[bis(phenylmethyl)amino]-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C28 H25 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

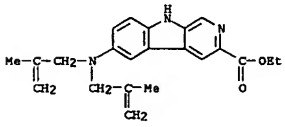
L4 ANSWER 51 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-99-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(di-2-propynylamino)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H17 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

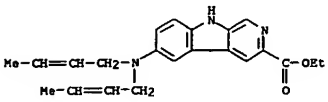
L4 ANSWER 52 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-98-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-[bis(2-methyl-2-propenyl)amino]-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C22 H25 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

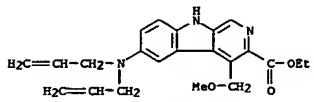
L4 ANSWER 53 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-97-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(di-2-butenylamino)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C22 H25 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

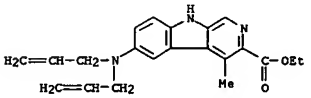
L4 ANSWER 54 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-96-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(di-2-propenylamino)-4-(methoxymethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C22 H25 N3 O3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

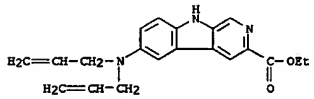
L4 ANSWER 55 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-95-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(di-2-propenylamino)-4-methyl-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C21 H23 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

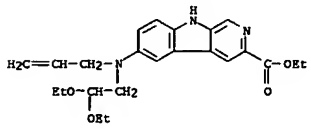
L4 ANSWER 56 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-94-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(di-2-propenylamino)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H21 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

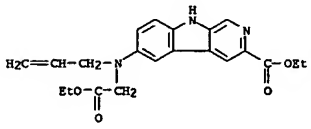
L4 ANSWER 57 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-93-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-[(2,2-diethoxyethyl)-2-propenylamino]-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C23 H29 N3 O4
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

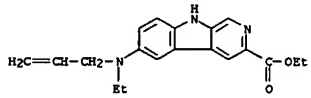
L4 ANSWER 58 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-92-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-[(2-ethoxy-2-oxoethyl)-2-propenylamino]-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C21 H23 N3 O4
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

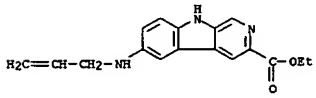
L4 ANSWER 59 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-91-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(ethyl-2-propenylamino)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H21 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

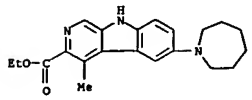
L4 ANSWER 60 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-90-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(2-propenylamino)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H17 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

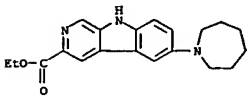
L4 ANSWER 61 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-89-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(hexahydro-1H-azepin-1-yl)-4-methyl-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C21 H25 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

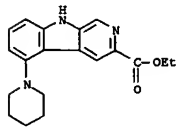
L4 ANSWER 62 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-88-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(hexahydro-1H-azepin-1-yl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H23 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

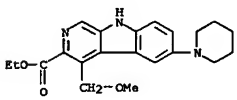
L4 ANSWER 63 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-87-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 5-(1-piperidinyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H21 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

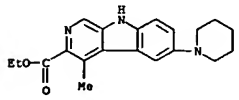
L4 ANSWER 64 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-86-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 4-(methoxymethyl)-6-(1-piperidinyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C21 H25 N3 O3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

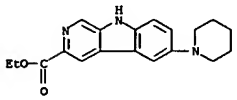
L4 ANSWER 65 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-85-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 4-methyl-6-(1-piperidinyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H23 N3 O2
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

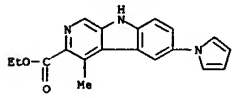
L4 ANSWER 66 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-84-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(1-piperidinyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H21 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

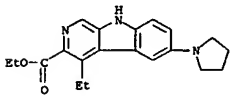
L4 ANSWER 67 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-83-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 4-methyl-6-(1H-pyrrol-1-yl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H17 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

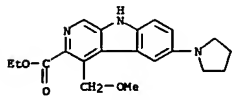
L4 ANSWER 68 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-82-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 4-ethyl-6-(1-pyrrolidinyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H23 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

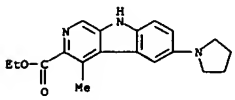
L4 ANSWER 69 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-81-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 4-(methoxymethyl)-6-(1-pyrrolidinyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H23 N3 O3
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

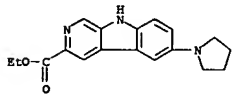
L4 ANSWER 70 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-80-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 4-methyl-6-(1-pyrrolidinyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H21 N3 O2
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

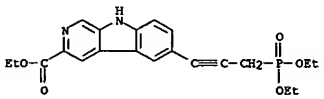
L4 ANSWER 71 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-79-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(1-pyrrolidinyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H19 N3 O2
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

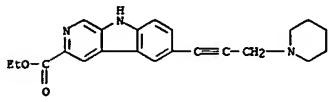
L4 ANSWER 72 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-78-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-[3-(diethoxyphosphinyl)-1-propynyl]-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C21 H23 N2 O5 P
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

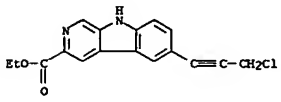
L4 ANSWER 73 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-77-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-[3-(1-piperidinyl)-1-propynyl]-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C22 H23 N3 O2
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

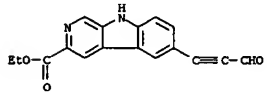
L4 ANSWER 74 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-76-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(3-chloro-1-propynyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H13 Cl N2 O2
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

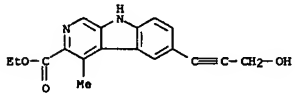
L4 ANSWER 75 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-75-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(3-oxo-1-propynyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H12 N2 O3
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

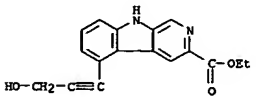
L4 ANSWER 76 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-74-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(3-hydroxy-1-propynyl)-4-methyl-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H16 N2 O3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

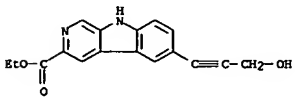
L4 ANSWER 77 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-73-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 5-(3-hydroxy-1-propynyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H14 N2 O3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

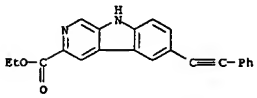
L4 ANSWER 78 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-72-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(3-hydroxy-1-propynyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H14 N2 O3
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

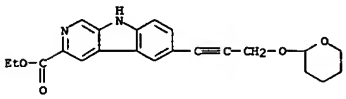
L4 ANSWER 79 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-71-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(phenylethynyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C22 H16 N2 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

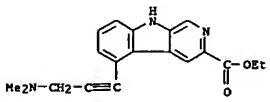
L4 ANSWER 80 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-70-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-[3-[(tetrahydro-2H-pyran-2-yl)oxy]-1-propynyl]-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C22 H22 N2 O4
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

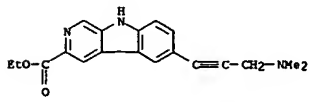
L4 ANSWER 81 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-69-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 5-[3-(dimethylamino)-1-propynyl]-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H19 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

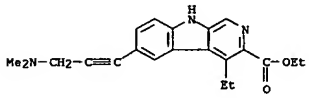
L4 ANSWER 82 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-68-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-[3-(dimethylamino)-1-propynyl]-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H19 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

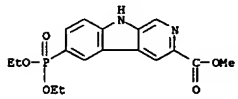
L4 ANSWER 83 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-67-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-[3-(dimethylamino)-1-propynyl]-4-ethyl-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C21 H23 N3 O2
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

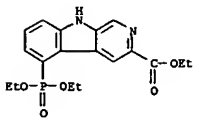
L4 ANSWER 84 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-66-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(diethoxyphosphinyl)-, methyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H19 N2 O5 P
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

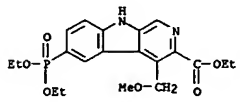
L4 ANSWER 85 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-65-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 5-(diethoxyphosphinyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H21 N2 O5 P
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

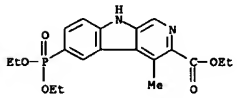
L4 ANSWER 86 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-64-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(diethoxyphosphinyl)-4-(methoxymethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H25 N2 O6 P
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

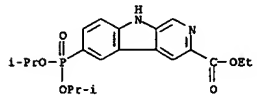
L4 ANSWER 87 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-63-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(diethoxyphosphinyl)-4-methyl-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H23 N2 O5 P
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

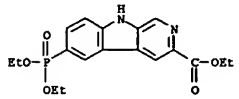
L4 ANSWER 88 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-62-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-[bis(1-methylethoxy)phosphinyl]-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H25 N2 O5 P
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

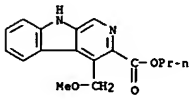
L4 ANSWER 89 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-61-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-(diethoxyphosphinyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H21 N2 O5 P
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

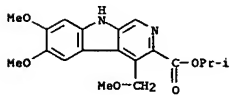
L4 ANSWER 90 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-60-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 4-(methoxymethyl)-, propyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H18 N2 O3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

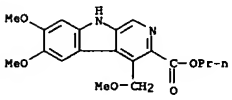
L4 ANSWER 91 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-59-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6,7-dimethoxy-4-(methoxymethyl)-, 1-methylethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H22 N2 O5
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

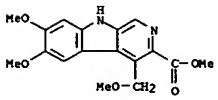
L4 ANSWER 92 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-58-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6,7-dimethoxy-4-(methoxymethyl)-, propyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H22 N2 O5
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

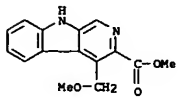
L4 ANSWER 93 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-57-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6,7-dimethoxy-4-(methoxymethyl)-, methyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H18 N2 O5
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

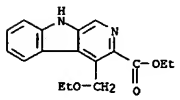
L4 ANSWER 94 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-56-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 4-(methoxymethyl)-, methyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H14 N2 O3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

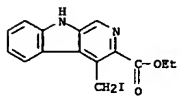
L4 ANSWER 95 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-55-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 4-(ethoxymethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H18 N2 O3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

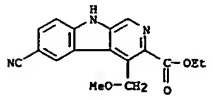
L4 ANSWER 96 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-54-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 4-(iodomethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H13 I N2 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

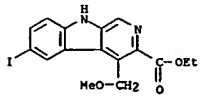
L4 ANSWER 97 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-53-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-cyano-4-(methoxymethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H15 N3 O3
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

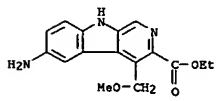
L4 ANSWER 98 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-52-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-iodo-4-(methoxymethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H15 I N2 O3
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

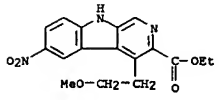
L4 ANSWER 99 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-51-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-amino-4-(methoxymethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H17 N3 O3
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

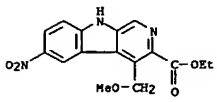
L4 ANSWER 100 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-50-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 4-(2-methoxyethyl)-6-nitro-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H17 N3 O5
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

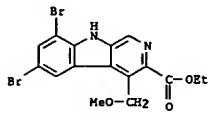
L4 ANSWER 101 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-49-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 4-(methoxymethyl)-6-nitro-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H15 N3 O5
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

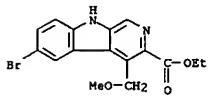
L4 ANSWER 102 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-48-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6,8-dibromo-4-(methoxymethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H14 Br2 N2 O3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

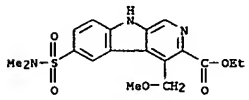
L4 ANSWER 103 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-47-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-bromo-4-(methoxymethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H15 Br N2 O3
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

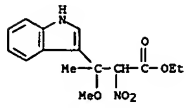
L4 ANSWER 104 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-46-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-[(dimethylamino)sulfonyl]-4-(methoxymethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H21 N3 O5 S
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

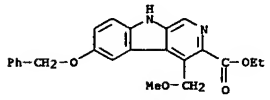
L4 ANSWER 105 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-45-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-3-propanoic acid, β-methoxy-β-methyl-α-nitro-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H18 N2 O5
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

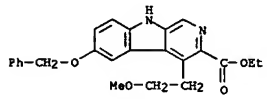
L4 ANSWER 106 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-44-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 4-(methoxymethyl)-6-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)
OTHER NAMES:
CN ZK 93423
FS 3D CONCORD
MF C23 H22 N2 O4
LC STN Files: ADISINSIGHT, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, DDFU, DRUGU, EMBASE, MEDLINE, PHAR, PROMT, PROUSDDR, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

80 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
80 REFERENCES IN FILE CAPLUS (1907 TO DATE)

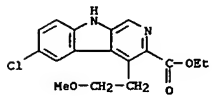
L4 ANSWER 107 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-43-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 4-(2-methoxyethyl)-6-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C24 H24 N2 O4
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

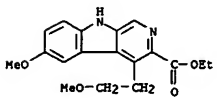
L4 ANSWER 108 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-42-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-chloro-4-(2-methoxyethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H17 Cl N2 O3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

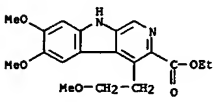
L4 ANSWER 109 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-41-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-methoxy-4-(2-methoxyethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H20 N2 O4
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

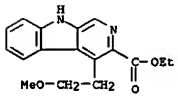
L4 ANSWER 110 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-40-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6,7-dimethoxy-4-(2-methoxyethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H22 N2 O5
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

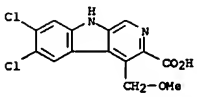
L4 ANSWER 111 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-39-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 4-(2-methoxyethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H18 N2 O3
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

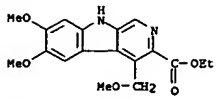
L4 ANSWER 112 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-38-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6,7-dichloro-4-(methoxymethyl)-(9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H10 Cl2 N2 O3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

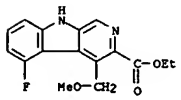
L4 ANSWER 113 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-37-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6,7-dimethoxy-4-(methoxymethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H20 N2 O5
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

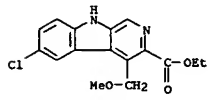
L4 ANSWER 114 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-36-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 5-fluoro-4-(methoxymethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H15 F N2 O3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

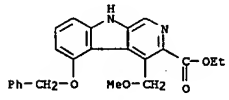
L4 ANSWER 115 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-35-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-chloro-4-(methoxymethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H15 Cl N2 O3
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

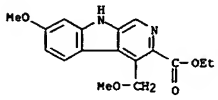
L4 ANSWER 116 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-34-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 4-(methoxymethyl)-5-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)
OTHER NAMES:
CN ZK 91296
FS 3D CONCORD
MF C23 H22 N2 O4
LC STN Files: ADISINSIGHT, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, DDFU, DRUGU, EMBASE, IMSDRUGNEWS, IMSRESEARCH, MEDLINE, PHAR, PROMT, PROUSDDR, SCISEARCH, SYNTHLINE, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

89 REFERENCES IN FILE CA (1907 TO DATE)
89 REFERENCES IN FILE CAPLUS (1907 TO DATE)

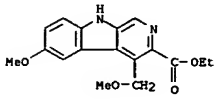
L4 ANSWER 117 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-33-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 7-methoxy-4-(methoxymethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H18 N2 O4
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

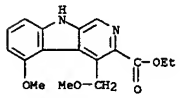
L4 ANSWER 118 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-32-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-methoxy-4-(methoxymethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H18 N2 O4
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

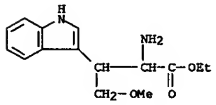
L4 ANSWER 119 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-31-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 5-methoxy-4-(methoxymethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H18 N2 O4
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

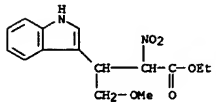
L4 ANSWER 120 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-30-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Tryptophan, β-(methoxymethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
DR 124601-04-3
MF C15 H20 N2 O3
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

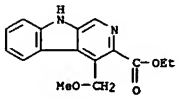
L4 ANSWER 121 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-29-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-3-propanoic acid, β-(methoxymethyl)-α-nitro-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H18 N2 O5
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

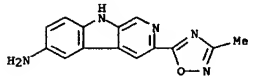
L4 ANSWER 122 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-28-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 4-(methoxymethyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H16 N2 O3
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

11 REFERENCES IN FILE CA (1907 TO DATE)
11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

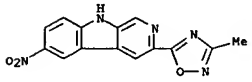
L4 ANSWER 123 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-27-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indol-6-amine, 3-(3-methyl-1,2,4-oxadiazol-5-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H11 N5 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

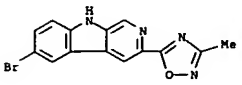
L4 ANSWER 124 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-26-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(3-methyl-1,2,4-oxadiazol-5-yl)-6-nitro- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H9 N5 O3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

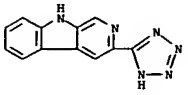
L4 ANSWER 125 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-25-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 6-bromo-3-(3-methyl-1,2,4-oxadiazol-5-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H9 Br N4 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

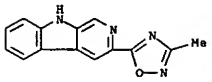
L4 ANSWER 126 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-24-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(1H-tetrazol-5-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H8 N6
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

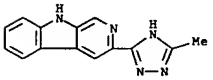
L4 ANSWER 127 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-23-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(3-methyl-1,2,4-oxadiazol-5-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H10 N4 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

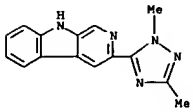
L4 ANSWER 128 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-22-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(5-methyl-1H-1,2,4-triazol-3-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H11 N5
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

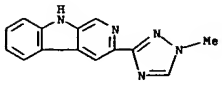
L4 ANSWER 129 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-21-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(1,3-dimethyl-1H-1,2,4-triazol-5-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H13 N5
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

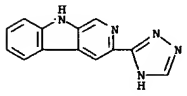
L4 ANSWER 130 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-20-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(1-methyl-1H-1,2,4-triazol-3-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H11 N5
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

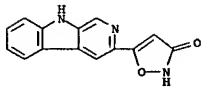
L4 ANSWER 131 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-19-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole, 3-(1H-1,2,4-triazol-3-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H9 N5
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

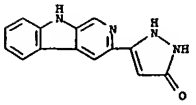
L4 ANSWER 132 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-18-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 3(2H)-Isoxazolone, 5-(9H-pyrido[3,4-b]indol-3-yl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, 3(2H)-isoxazolone deriv.
FS 3D CONCORD
MF C14 H9 N3 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

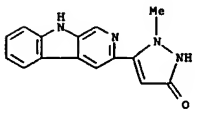
L4 ANSWER 133 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-17-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 3H-Pyrazol-3-one, 1,2-dihydro-5-(9H-pyrido[3,4-b]indol-3-yl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, 3H-pyrazol-3-one deriv.
FS 3D CONCORD
MF C14 H10 N4 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

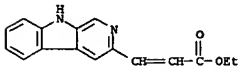
L4 ANSWER 134 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-16-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 3H-Pyrazol-3-one, 1,2-dihydro-1-methyl-5-(9H-pyrido[3,4-b]indol-3-yl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, 3H-pyrazol-3-one deriv.
FS 3D CONCORD
MF C15 H12 N4 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

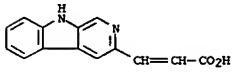
L4 ANSWER 135 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-15-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2-Propenoic acid, 3-(9H-pyrido[3,4-b]indol-3-yl)-, ethyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, 2-propenoic acid deriv.
FS 3D CONCORD
MF C16 H14 N2 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

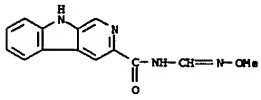
L4 ANSWER 136 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-14-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2-Propenoic acid, 3-(9H-pyrido[3,4-b]indol-3-yl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, 2-propenoic acid deriv.
FS 3D CONCORD
MF C14 H10 N2 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

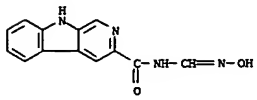
L4 ANSWER 137 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-13-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[(methoxyamino)methylene]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H12 N4 O2
LC STN Files: , CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

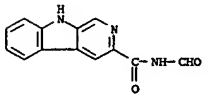
L4 ANSWER 138 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-12-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[(hydroxyamino)methylene]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H10 N4 O2
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

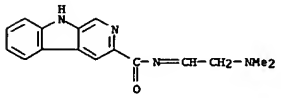
L4 ANSWER 139 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-11-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-formyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H9 N3 O2
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

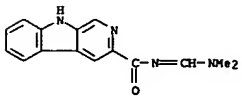
L4 ANSWER 140 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-10-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[2-(dimethylamino)ethylidene]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H16 N4 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

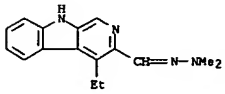
L4 ANSWER 141 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-09-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[(dimethylamino)methylene]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H14 N4 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

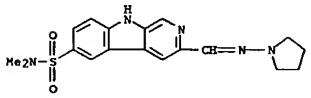
L4 ANSWER 142 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-08-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxaldehyde, 4-ethyl-, dimethylhydrazone (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H18 N4
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

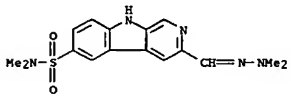
L4 ANSWER 143 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-07-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-6-sulfonamide, N,N-dimethyl-3-[(1-pyrrolidinylimino)methyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H21 N5 O2 S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

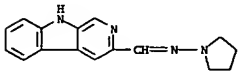
L4 ANSWER 144 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-06-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-6-sulfonamide, 3-[(dimethylhydrazono)methyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H19 N5 O2 S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

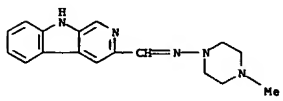
L4 ANSWER 145 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-05-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1-Pyrrolidinamine, N-(9H-pyrido[3,4-b]indol-3-ylmethylene)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, 1-pyrrolidinamine deriv.
FS 3D CONCORD
MF C16 H16 N4
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

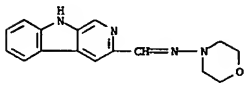
L4 ANSWER 146 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-04-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1-Piperazinamine, 4-methyl-N-(9H-pyrido[3,4-b]indol-3-ylmethylene)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, 1-piperazinamine deriv.
FS 3D CONCORD
MF C17 H19 N5
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

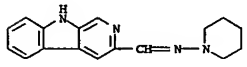
L4 ANSWER 147 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-03-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 4-Morpholinamine, N-(9H-pyrido[3,4-b]indol-3-ylmethylene)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, 4-morpholinamine deriv.
FS 3D CONCORD
MF C16 H16 N4 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

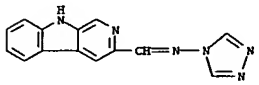
L4 ANSWER 148 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-02-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1-Piperidinamine, N-(9H-pyrido[3,4-b]indol-3-ylmethylene)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, 1-piperidinamine deriv.
FS 3D CONCORD
MF C17 H18 N4
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

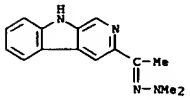
L4 ANSWER 149 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-01-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 4H-1,2,4-Triazol-4-amine, N-(9H-pyrido[3,4-b]indol-3-ylmethylene)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, 4H-1,2,4-triazol-4-amine deriv.
FS 3D CONCORD
MF C14 H10 N6
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

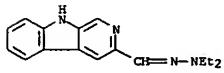
L4 ANSWER 150 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83910-00-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Ethanone, 1-(9H-pyrido[3,4-b]indol-3-yl)-, dimethylhydrazone (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, ethanone deriv.
FS 3D CONCORD
MF C15 H16 N4
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

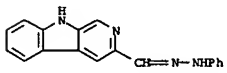
L4 ANSWER 151 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83909-99-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxaldehyde, diethylhydrazone (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H18 N4
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

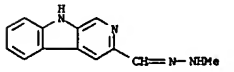
L4 ANSWER 152 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83909-98-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxaldehyde, phenylhydrazone (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H14 N4
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

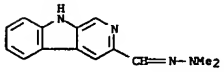
L4 ANSWER 153 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83909-97-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxaldehyde, methylhydrazone (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H12 N4
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

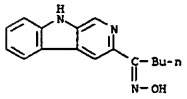
L4 ANSWER 154 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83909-96-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxaldehyde, dimethylhydrazone (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H14 N4
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

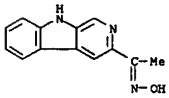
L4 ANSWER 155 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83909-95-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1-Pentanone, 1-(9H-pyrido[3,4-b]indol-3-yl)-, oxime (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, 1-pentanone deriv.
FS 3D CONCORD
MF C16 H17 N3 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

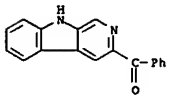
L4 ANSWER 156 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83909-94-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Ethanone, 1-(9H-pyrido[3,4-b]indol-3-yl)-, oxime (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, ethanone deriv.
FS 3D CONCORD
MF C13 H11 N3 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

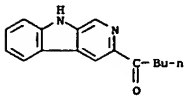
L4 ANSWER 157 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83909-93-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Methanone, phenyl-9H-pyrido[3,4-b]indol-3-yl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, methanone deriv.
FS 3D CONCORD
MF C18 H12 N2 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

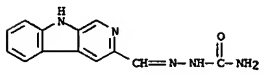
L4 ANSWER 158 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83909-92-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1-Pentanone, 1-(9H-pyrido[3,4-b]indol-3-yl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, 1-pentanone deriv.
FS 3D CONCORD
MF C16 H16 N2 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

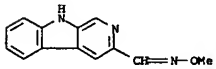
L4 ANSWER 159 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83909-91-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Hydrazinecarboxamide, 2-(9H-pyrido[3,4-b]indol-3-ylmethylene)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, hydrazinecarboxamide deriv.
FS 3D CONCORD
MF C13 H11 N5 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

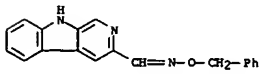
L4 ANSWER 160 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83909-90-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxaldehyde, O-methyloxime (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H11 N3 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

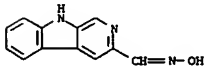
L4 ANSWER 161 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83909-89-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxaldehyde, O-(phenylmethyl)oxime (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H15 N3 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

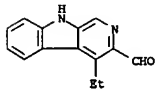
L4 ANSWER 162 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83909-88-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxaldehyde, oxime (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H9 N3 O
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

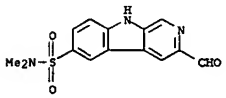
L4 ANSWER 163 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83909-87-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxaldehyde, 4-ethyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H12 N2 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

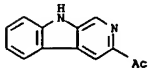
L4 ANSWER 164 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 83909-86-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-6-sulfonamide, 3-formyl-N,N-dimethyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H13 N3 O3 S
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

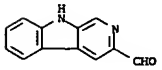
L4 ANSWER 165 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 82596-93-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Ethanone, 1-(9H-pyrido[3,4-b]indol-3-yl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Pyrido[3,4-b]indole, ethanone deriv.
OTHER NAMES:
CN 3-Acetyl-β-carboline
FS 3D CONCORD
MF C13 H10 N2 O
LC STN Files: BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

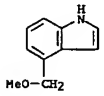
L4 ANSWER 166 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 82596-91-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxaldehyde (9CI) (CA INDEX NAME)
OTHER NAMES:
CN β-Carboline-3-carboxaldehyde
FS 3D CONCORD
MF C12 H8 N2 O
LC STN Files: BEILSTEIN*, BIOBUSINESS, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

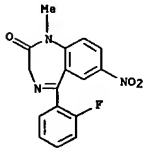
L4 ANSWER 167 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 81251-10-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole, 4-(methoxymethyl)- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 4-(Methoxymethyl)indole
FS 3D CONCORD
MF C10 H11 N O
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

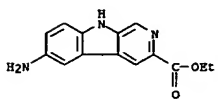
2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 168 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 80573-68-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2H-1,4-Benzodiazepin-2-one, 5-(2-fluorophenyl)-1,3-dihydro-1-methyl-7-nitro-, labeled with tritium (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Flunitrazepam labeled with tritium
CN Tritiated flunitrazepam
FS 3D CONCORD
MF C16 H12 F N3 O3
LC STN Files: BIOBUSINESS, BIOSIS, CA, CAPLUS, TOXCENTER, USPATFULL
IL XH-3



12 REFERENCES IN FILE CA (1907 TO DATE)
12 REFERENCES IN FILE CAPLUS (1907 TO DATE)

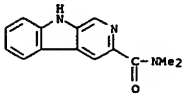
L4 ANSWER 169 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 78539-57-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 6-amino-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H13 N3 O2
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

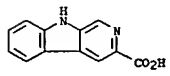
L4 ANSWER 170 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 78538-91-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N,N-dimethyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H13 N3 O
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

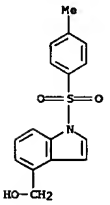
L4 ANSWER 171 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 74214-63-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid (6CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN β-Carboline-3-carboxylic acid
CN 3-Carboxy-β-carboline
CN Norharmane-3-carboxylic acid
CN NSC 623957
FS 3D CONCORD
MF C12 H8 N2 O2
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, EMBASE, MEDLINE, PROMT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

82 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
82 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

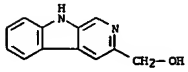
L4 ANSWER 172 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 71516-38-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-4-methanol, 1-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1-Tosyl-4-(hydroxymethyl)indole
FS 3D CONCORD
MF C16 H15 N O3 S
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

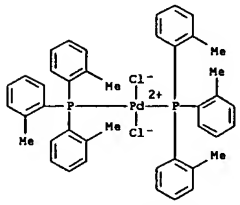
L4 ANSWER 173 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 65474-79-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9H-Pyrido[3,4-b]indole-3-methanol (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3-Hydroxymethyl-β-carboline
FS 3D CONCORD
MF C12 H10 N2 O
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CSCHEM, EMBASE, MEDLINE, MRCK*, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

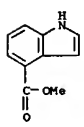
35 REFERENCES IN FILE CA (1907 TO DATE)
35 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 174 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 40691-33-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Palladium, dichlorobis[tris(2-methylphenyl)phosphine]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Phosphine, tris(2-methylphenyl)-, palladium complex
OTHER NAMES:
CN Dichlorobis(tri-o-tolylphosphine)palladium
CN Dichlorobis(tris(2-tolyl)phosphine)palladium
CN Dichlorobis(tris(o-tolyl)phosphine)palladium
CN dichlorobis[tris(2-methylphenyl)phosphine]palladium
MF C42 H42 Cl2 P2 Pd
CI CCS
LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CSCHEM, GMELIN*, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)



90 REFERENCES IN FILE CA (1907 TO DATE)
90 REFERENCES IN FILE CAPLUS (1907 TO DATE)

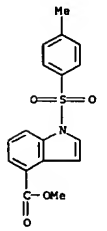
L4 ANSWER 175 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 39830-66-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-4-carboxylic acid, methyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Indole-4-carboxylic acid, methyl ester (6CI)
OTHER NAMES:
CN 4-Methoxycarbonylindole
CN Methyl 1H-indole-4-carboxylate
CN Methyl 4-indolecarboxylate
FS 3D CONCORD
MF C10 H9 N O2
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CSCHEM, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

91 REFERENCES IN FILE CA (1907 TO DATE)
91 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

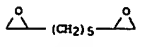
L4 ANSWER 176 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 31271-85-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-4-carboxylic acid, 1-[(4-methylphenyl)sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Indole-4-carboxylic acid, 1-(p-tolylsulfonyl)-, methyl ester (8CI)
OTHER NAMES:
CN 4-Methoxycarbonyl-1-tosylindole
FS 3D CONCORD
MF C17 H15 N O4 S
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 REFERENCES IN FILE CA (1907 TO DATE)
13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 177 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 24829-11-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Oxirane, 2,2'-(1,5-pentanediyl)bis- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Nonane, 1,2:8,9-diepoxy- (7CI)
OTHER NAMES:
CN 1,2,8,9-Diepoxynonane
FS 3D CONCORD
MF C9 H16 O2
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, RTECS*, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 178 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 22379-62-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenemethanol, potassium salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzyl alcohol, potassium salt (8CI)
CN Potassium benzyl oxide (6CI)
OTHER NAMES:
CN Potassium benzylate
MF C7 H8 O . K
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMINFORMRX, IFICDB, IFIPAT, IFIUDB, USPATFULL
(*File contains numerically searchable property data)
CRN (100-51-6)

● K

43 REFERENCES IN FILE CA (1907 TO DATE)
43 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 179 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 19107-42-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1-Piperidinamine, 4-methyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 4-Pipecoline, 1-amino- (7CI, 8CI)
OTHER NAMES:
CN 1-Amino-4-methyl-2-piperidine
CN 1-Amino-4-methylpiperidine
CN N-Amino-4-methylpiperidine
CN Piperidine, 1-amino-4-methyl-
FS 3D CONCORD
MF C6 H14 N2
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CHEMCATS, IFICDB, IFIPAT, IFIUDB, SYNTHLINE, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

20 REFERENCES IN FILE CA (1907 TO DATE)
20 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 180 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 16596-41-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1-Pyrrolidinamine (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Pyrrolidine, 1-amino- (6CI, 7CI, 8CI)
OTHER NAMES:
CN 1-Aminopyrrolidine
CN N-Aminopyrrolidine
CN NSC 80647
CN Pyrrolidin-1-ylamine
CN Pyrrolidylamine
FS 3D CONCORD
MF C4 H10 N2
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, GMELIN*, IFICDB, IFIPAT, IFIUDB, SPECINFO, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

124 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
124 REFERENCES IN FILE CAPLUS (1907 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 181 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 10312-83-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Acetaldehyde, methoxy- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN α-Methoxyacetaldehyde
CN 2-Methoxyacetaldehyde
CN Methoxyacetaldehyde
CN O-Methylglycolaldehyde
FS 3D CONCORD
MF C3 H6 O2
CI COM
LC STN Files: BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, CSNB, DETHERM*, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, NIOSHTIC, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

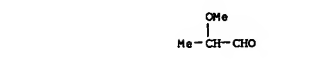
190 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
190 REFERENCES IN FILE CAPLUS (1907 TO DATE)
4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 182 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 7223-38-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2-Propyn-1-amine, N,N-dimethyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Propynylamine, N,N-dimethyl- (6CI, 7CI, 8CI)
OTHER NAMES:
CN 1-Dimethylaminoprop-2-yne
CN 3-(Dimethylamino)-1-propyne
CN 3-(Dimethylamino)propyne
CN 3-(N,N-Dimethylamino)-1-propyne
CN 3-(N,N-Dimethylamino)propyne
CN N,N-Dimethyl-2-propyn-1-amine
CN N,N-Dimethyl-2-propynamine
CN N,N-Dimethyl-2-propynylamine
CN N,N-Dimethyl-N-(2-propynyl)amine
CN N,N-Dimethylpropargylamine
CN Propargyldimethylamine
FS 3D CONCORD
MF C5 H9 N
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM*, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, SPECINFO, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

416 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
416 REFERENCES IN FILE CAPLUS (1907 TO DATE)
11 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 183 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 6142-38-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Propanal, 2-methoxy- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Propionaldehyde, 2-methoxy- (7CI, 8CI)
OTHER NAMES:
CN 2-Methoxypropanal
CN 2-Methoxypropionaldehyde
FS 3D CONCORD
DR 107847-08-5
MF C4 H8 O2
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, RTECS*, SPECINFO, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

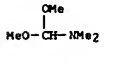
21 REFERENCES IN FILE CA (1907 TO DATE)
21 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 184 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 6089-04-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2H-Pyran, tetrahydro-2-(2-propynyloxy)- (8CI, 9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Pyran, tetrahydro-2-(2-propynyloxy)- (6CI, 7CI)
OTHER NAMES:
CN (±)-Tetrahydro-2-(2-propynyloxy)-2H-pyran
CN (2-Propynyloxy)tetrahydropyran
CN 1-(2'-Tetrahydropyranyloxy)-2-propyne
CN 1-(Tetrahydropyranyloxy)prop-2-yne
CN 1-Tetrahydropyran-2-yloxy-2-propyne
CN 2-(2-Propynyloxy)tetrahydro-2H-pyran
CN 2-(2-Propynyloxy)tetrahydropyran
CN 2-(Propargyloxy)tetrahydropyran
CN 2-Propargyloxane
CN 2-Propynyl tetrahydro-2-pyranyl ether
CN 2-Propynyl tetrahydro-2H-pyran-2-yl ether
CN 3,4,5,6-Tetrahydro-2-(2-propynyloxy)-2H-pyran
CN 3-(2'-Tetrahydropyranyloxy)propyne
CN 3-(Tetrahydro-2-pyranyloxy)propyne
CN 3-(Tetrahydropyran-2-yloxy)prop-1-yne
CN 3-(Tetrahydropyranyloxy)propyne
CN 3-Tetrahydropyranyloxyprop-1-yne
CN NSC 152714
CN O-Tetrahydropyranylpropargyl alcohol
CN Propargyl (tetrahydro-2H-pyran-2-yl) ether
CN Propargyl 2-tetrahydropyranyl ether
CN Propargyl alcohol tetrahydropyranyl ether
CN Propargyl tetrahydropyranyl ether
CN Tetrahydro-2-(2-propynyloxy)-2H-pyran
CN Tetrahydro-2-(2-propynyloxy)pyran
CN Tetrahydropyran-2-yloxypropyne
CN Tetrahydropyranyl propargyl ether
FS 3D CONCORD
DR 69841-59-4
MF C8 H12 O2
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, GMELIN*, IFICDB, IFIPAT, IFIUDB, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

814 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
815 REFERENCES IN FILE CAPLUS (1907 TO DATE)
11 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 185 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 4637-24-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Methanamine, 1,1-dimethoxy-N,N-dimethyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Trimethylamine, 1,1-dimethoxy- (6CI, 7CI, 8CI)
OTHER NAMES:
CN (Dimethoxymethyl)dimethylamine
CN (Dimethylamino)dimethoxymethane
CN (Dimethylamino)formaldehyde dimethyl acetal
CN α,α-Dimethoxytrimethylamine
CN 1,1-Dimethoxy-N,N-dimethylmethanamine
CN 1,1-Dimethoxytrimethylamine
CN Dimethoxy(dimethylamino)methane
CN Dimethoxy-N,N-dimethylmethanamine
CN Dimethoxy-N,N-dimethylmethylamine
CN Dimethyl dimethylformamide acetal
CN Dimethylformamide dimethyl acetal
CN DMF dimethyl acetal
CN DMFDMA
CN Methyl-8
CN N-(Dimethoxymethyl)-N,N-dimethylamine
CN N-(Dimethoxymethyl)dimethylamine
FS 3D CONCORD
MF C5 H13 N O2
LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, PIRA, PS, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2644 REFERENCES IN FILE CA (1907 TO DATE)
11 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2653 REFERENCES IN FILE CAPLUS (1907 TO DATE)
14 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 186 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 4319-49-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 4-Morpholinamine (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Morpholine, 4-amino- (6CI, 7CI, 8CI)
OTHER NAMES:
CN 4-Aminomorpholine
CN 4-Morpholineamine
CN N-Aminomorpholine
CN NSC 6825
FS 3D CONCORD
MF C4 H10 N2 O
CI COM
LC STN Files: BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, NIOSHTIC, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

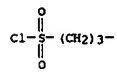
485 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
485 REFERENCES IN FILE CAPLUS (1907 TO DATE)
12 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 187 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 2213-43-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1-Piperidinamine (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Piperidine, 1-amino- (6CI, 7CI, 8CI)
OTHER NAMES:
CN 1-Aminopiperidine
CN 1-Piperidineamine
CN 1-Piperidylamine
CN N-Aminopiperidine
CN NSC 83225
CN Pentamethylenehydrazine
CN Piperidin-1-ylamine
FS 3D CONCORD
DR 104712-05-2
MF C5 H12 N2
CI COM
LC STN Files: ANABSTR, BEILSTEIN*, BIOSIS, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, CSNB, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, NIOSHTIC, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

448 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
453 REFERENCES IN FILE CAPLUS (1907 TO DATE)
14 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

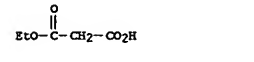
L4 ANSWER 188 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 1633-82-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1-Propanesulfonyl chloride, 3-chloro- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN γ-Chloropropanesulfonyl chloride
CN 1-Chloro-3-propanesulfonyl chloride
CN 3-Chloro-1-propanesulfonyl chloride
CN 3-Chloropropanesulfonyl chloride
CN 3-Chloropropansulfonyl chloride
CN 3-Chloropropylsulfonyl chloride
CN NSC 93777
FS 3D CONCORD
MF C3 H6 Cl2 O2 S
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, HODOC*, IFICDB, IFIPAT, IFIUDB, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

214 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
216 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 189 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 1071-46-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Propanedioic acid, monoethyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Malonic acid, ethyl ester (6CI, 7CI)
CN Malonic acid, monoethyl ester (8CI)
OTHER NAMES:
CN (Ethoxycarbonyl)acetic acid
CN 3-Ethoxy-3-oxopropanoic acid
CN Ethyl hydrogen malonate
CN Ethyl malonate
CN Monoethyl hydrogen malonate
CN Monoethyl malonate
FS 3D CONCORD
MF C5 H8 O4
CI COM
LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DIOGENES, GMELIN*, IFICDB, IFIPAT, IFIUDB, PS, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

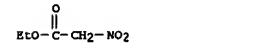
882 REFERENCES IN FILE CA (1907 TO DATE)
11 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
884 REFERENCES IN FILE CAPLUS (1907 TO DATE)
20 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 190 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 872-50-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2-Pyrrolidinone, 1-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1-Methyl-2-pyrrolidinone
CN 1-Methyl-2-pyrrolidone
CN 1-Methyl-5-pyrrolidinone
CN 1-Methylazacyclopentan-2-one
CN 1-Methylpyrrolidone
CN AgsolEx 1
CN M-Pyrol
CN Microposit 2001
CN N 0131
CN N-Methyl-α-pyrrolidinone
CN N-Methyl-α-pyrrolidone
CN N-Methyl-γ-butyrolactam
CN N-Methyl-2-ketopyrrolidine
CN N-Methyl-2-pyrrolidinone
CN N-Methyl-2-pyrrolidone
CN N-Methylbutyrolactam
CN N-Methylpyrrolidone
CN NMP
CN NSC 4594
CN Pharmasolve
CN Pyrol M
CN SL 1332
FS 3D CONCORD
DR 53774-35-9, 57762-46-6, 26138-58-9
MF C5 H9 N O
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, PS, RTECS*, SCISEARCH, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

11923 REFERENCES IN FILE CA (1907 TO DATE)
174 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
11947 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 191 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 626-35-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Acetic acid, nitro-, ethyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Ethyl nitroacetate
CN Nitroacetic acid ethyl ester
CN NSC 42302
FS 3D CONCORD
MF C4 H7 N O4
CI COM
LC STN Files: ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM*, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

478 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
479 REFERENCES IN FILE CAPLUS (1907 TO DATE)
22 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 192 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 616-40-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Hydrazine, 1,1-diethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,1-Diethylhydrazine
CN N,N-Diethylhydrazine
FS 3D CONCORD
MF C4 H12 N2
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, DETHERM*, HODOC*, IFICDB, IFIPAT, IFIUDB, NIOSHTIC, SPECINFO, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

119 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
119 REFERENCES IN FILE CAPLUS (1907 TO DATE)
24 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 193 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 584-13-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 4H-1,2,4-Triazol-4-amine (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 4H-1,2,4-Triazole, 4-amino- (8CI)
OTHER NAMES:
CN 1,2,4-Triazol-4-amine
CN 1,2,4-Triazol-4-ylamine
CN 1,2,4-Triazole-4-amine
CN 1-Amino-1,3,4-triazole
CN 1-Amino-1H-1,3,4-triazole
CN 4-Amino-1,2,4(4H)-triazole
CN 4-Amino-1,2,4-triazole
CN 4-Amino-4H-1,2,4-triazole
CN NSC 3263
CN NSC 7242
FS 3D CONCORD
MF C2 H4 N4
CI COM
LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, CSNB, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

529 REFERENCES IN FILE CA (1907 TO DATE)
43 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
529 REFERENCES IN FILE CAPLUS (1907 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 194 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 141-82-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Propanedioic acid (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Malonic acid (8CI)
OTHER NAMES:
CN 1,3-Propanedioic acid
CN Carboxyacetic acid
CN Dicarboxymethane
CN Methanedicarboxylic acid
CN NSC 8124
FS 3D CONCORD
DR 211863-95-5
MF C3 H4 O4
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

12517 REFERENCES IN FILE CA (1907 TO DATE)
1116 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
12539 REFERENCES IN FILE CAPLUS (1907 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 195 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 122-52-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Phosphorous acid, triethyl ester (8CI, 9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Ethyl phosphite, (EtO)3P (7CI)
CN Ethyl phosphite, Et3PO3 (4CI)
OTHER NAMES:
CN NSC 5284
CN Triethoxyphosphine
CN Triethyl phosphite
CN Tris(ethoxy)phosphine
FS 3D CONCORD
MF C6 H15 O3 P
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DETHERM*, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5169 REFERENCES IN FILE CA (1907 TO DATE)
96 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
5179 REFERENCES IN FILE CAPLUS (1907 TO DATE)
74 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 196 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 120-72-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Indole (8CI)
OTHER NAMES:
CN 1-Azaindene
CN 1-Benzazole
CN 2,3-Benzopyrrole
CN Benzo[b]pyrrole
CN Ketole
CN NSC 1964
FS 3D CONCORD
MF C8 H7 N
CI COM, RPS
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

12365 REFERENCES IN FILE CA (1907 TO DATE)
2015 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
12390 REFERENCES IN FILE CAPLUS (1907 TO DATE)
6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 197 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 111-24-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Pentane, 1,5-dibromo- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,5-Dibromopentane
CN 1,5-Pentanedibromide
CN NSC 5373
CN Pentamethylene bromide
CN Pentamethylene dibromide
FS 3D CONCORD
MF C5 H10 Br2
CI COM
LC STN Files: BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM*, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, NIOSHTIC, PIRA, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1775 REFERENCES IN FILE CA (1907 TO DATE)
10 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1779 REFERENCES IN FILE CAPLUS (1907 TO DATE)
32 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 198 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 110-89-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN Piperidine (7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Azacyclohexane
CN Cyclopentimine
CN Cypentil
CN Hexahydropyridine
CN Hexazane
CN Pentamethylenimine
CN Perhydropyridine
CN Pyridine, hexahydro-
FS 3D CONCORD
MF C5 H11 N
CI COM, RPS
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

20101 REFERENCES IN FILE CA (1907 TO DATE)
1018 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
20134 REFERENCES IN FILE CAPLUS (1907 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 199 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 110-52-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Butane, 1,4-dibromo- (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN α,α-Dibromobutane
CN 1,4-Dibromobutane
CN NSC 71435
CN Tetramethylene dibromide
CN Tetramethylenebromide
FS 3D CONCORD
DR 625084-39-1
MF C4 H8 Br2
CI COM
LC STN Files: ANABSTR, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM*, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, NIOSHTIC, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

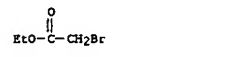
3501 REFERENCES IN FILE CA (1907 TO DATE)
38 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3508 REFERENCES IN FILE CAPLUS (1907 TO DATE)
13 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 200 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 106-95-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1-Propene, 3-bromo- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Propene, 3-bromo- (8CI)
OTHER NAMES:
CN 1-Bromo-2-propene
CN 2-Propenyl bromide
CN 3-Bromo-1-propene
CN 3-Bromopropene
CN 3-Bromopropylene
CN Allyl bromide
CN NSC 7596
FS 3D CONCORD
MF C3 H5 Br
CI COM
LC STN Files: ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13501 REFERENCES IN FILE CA (1907 TO DATE)
213 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
13529 REFERENCES IN FILE CAPLUS (1907 TO DATE)
7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 201 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 105-36-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Acetic acid, bromo-, ethyl ester (6CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN (Ethoxycarbonyl)methyl bromide
CN α-Bromoacetic acid ethyl ester
CN 2-Bromoacetic acid ethyl ester
CN Antol
CN Bromoacetic acid ethyl ester
CN Ethyl α-bromoacetate
CN Ethyl 2-bromoacetate
CN Ethyl 2-bromoethanoate
CN Ethyl bromacetate
CN Ethyl bromoacetate
CN Ethyl bromoethanoate
CN Ethyl monobromoacetate
CN NSC 8832
FS 3D CONCORD
DR 679806-14-5
MF C4 H7 Br O2
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM*, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PDLCOM*, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7844 REFERENCES IN FILE CA (1907 TO DATE)
23 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
7853 REFERENCES IN FILE CAPLUS (1907 TO DATE)
43 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 202 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 100-63-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Hydrazine, phenyl- (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Hydrazinobenzene
CN Monophenylhydrazine
CN Phenylhydrazine
FS 3D CONCORD
MF C6 H8 N2
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7935 REFERENCES IN FILE CA (1907 TO DATE)
149 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
7945 REFERENCES IN FILE CAPLUS (1907 TO DATE)
9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 203 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 75-31-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2-Propanamine (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Isopropylamine (8CI)
OTHER NAMES:
CN 1-Methylethylamine
CN 2-Aminopropane
CN 2-Propylamine
CN Monoisopropylamine
CN NSC 62775
CN Propan-2-ylamine
CN sec-Propylamine
FS 3D CONCORD
DR 85404-24-6
MF C3 H9 N
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7664 REFERENCES IN FILE CA (1907 TO DATE)
230 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
7676 REFERENCES IN FILE CAPLUS (1907 TO DATE)
6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 204 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 75-26-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Propane, 2-bromo- (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 2-Bromopropane
CN Isopropyl bromide
CN sec-Propyl bromide
FS 3D CONCORD
MF C3 H7 Br
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, DIPPR*, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

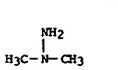
3292 REFERENCES IN FILE CA (1907 TO DATE)
14 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3295 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 205 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 60-34-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN Hydrazine, methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Methylhydrazine
CN MMH
CN Monomethylhydrazine
FS 3D CONCORD
MF C H6 N2
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3433 REFERENCES IN FILE CA (1907 TO DATE)
78 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3440 REFERENCES IN FILE CAPLUS (1907 TO DATE)
73 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 206 OF 206 REGISTRY COPYRIGHT 2005 ACS on STN
RN 57-14-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Hydrazine, 1,1-dimethyl- (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,1-Dimethylhydrazine
CN as-Dimethylhydrazine
CN Dimazin
CN Dimazine
CN gem-Dimethylhydrazine
CN Heptyl
CN N,N-Dimethylhydrazine
CN NSC 60517
CN u-Dimethylhydrazine
CN UDMH
CN unsym-Dimethylhydrazine
CN Unsymmetrical dimethylhydrazine
FS 3D CONCORD
DR 88733-28-2
MF C2 H8 N2
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

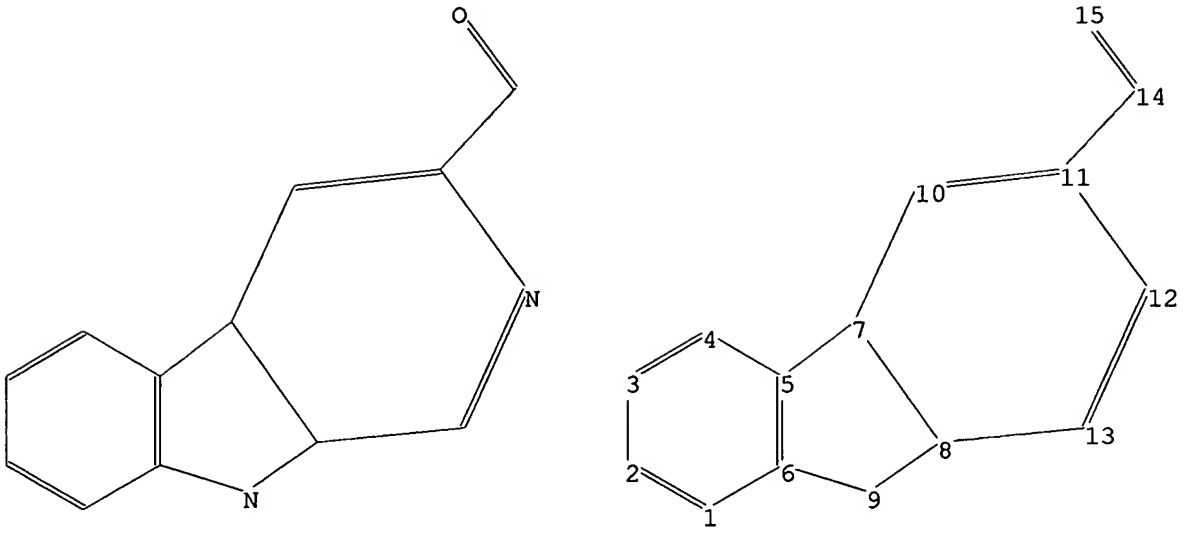


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2679 REFERENCES IN FILE CA (1907 TO DATE)
63 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2682 REFERENCES IN FILE CAPLUS (1907 TO DATE)
106 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
=> fil reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                       384.20     648.81

FILE 'REGISTRY' ENTERED AT 17:35:39 ON 19 SEP 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   18 SEP 2005  HIGHEST RN 863382-78-9
DICTIONARY FILE UPDATES:  18 SEP 2005  HIGHEST RN 863382-78-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                    *
**********************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\10765227\10765227d.str
```

10/765,227 9/19/05

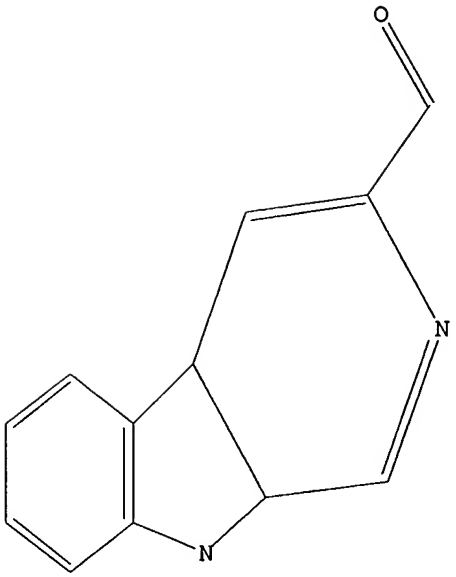


chain nodes :
14 15
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13
chain bonds :
11-14 14-15
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 12-13
exact/norm bonds :
5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 12-13 14-15
exact bonds :
11-14
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

Hydrogen count :
9:= exact 0
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:CLASS 15:CLASS

L5 STRUCTURE UPLOADED

=> d
L5 HAS NO ANSWERS
L5 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s L5
SAMPLE SEARCH INITIATED 17:35:58 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     1421 TO ITERATE

100.0% PROCESSED     1421 ITERATIONS                                 30 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        26159 TO    30681
PROJECTED ANSWERS:             272 TO      928

L6           30 SEA SSS SAM L5

=> s L5 full
FULL SEARCH INITIATED 17:36:12 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    28351 TO ITERATE

100.0% PROCESSED    28351 ITERATIONS                                514 ANSWERS
SEARCH TIME: 00.00.01

L7          514 SEA SSS FUL L5

=> fil caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     161.33     810.14

FILE 'CAPLUS' ENTERED AT 17:36:16 ON 19 SEP 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)
```

FILE COVERS 1907 - 19 Sep 2005 VOL 143 ISS 13
FILE LAST UPDATED: 18 Sep 2005 (20050918/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s L7
L8 105 L7

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.90	811.04

FILE 'REGISTRY' ENTERED AT 17:37:38 ON 19 SEP 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 SEP 2005 HIGHEST RN 863382-78-9
DICTIONARY FILE UPDATES: 18 SEP 2005 HIGHEST RN 863382-78-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

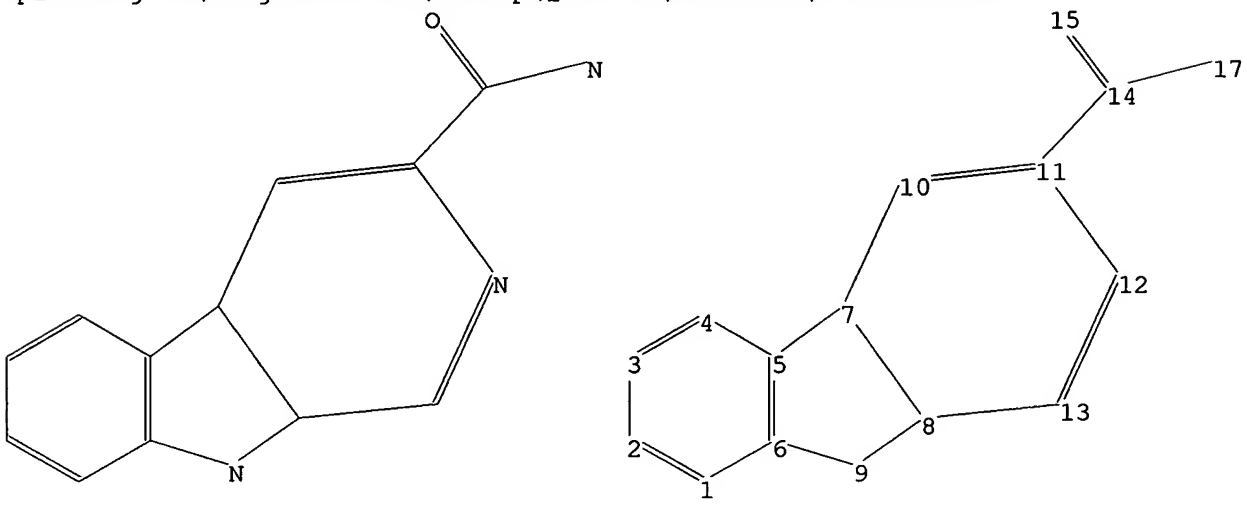
****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
****

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more

information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\10765227\10765227e.str

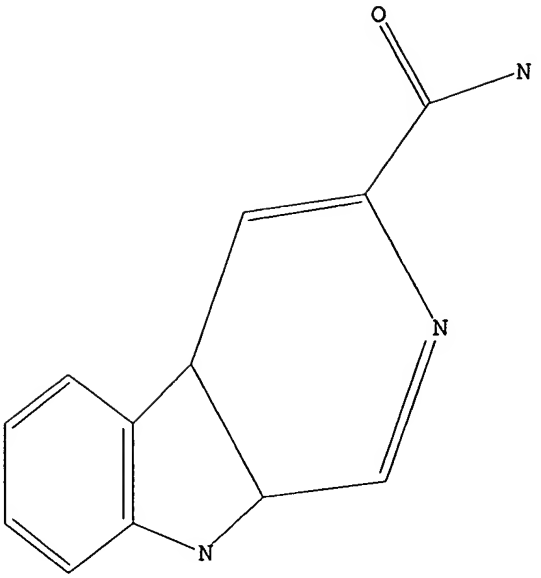


chain nodes :
14 15 17
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13
chain bonds :
11-14 14-15 14-17
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 12-13
exact/norm bonds :
5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 12-13 14-15 14-17
exact bonds :
11-14
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

Hydrogen count :
9:= exact 0
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:CLASS 15:CLASS 17:CLASS

L9 STRUCTURE UPLOADED

=> d
L9 HAS NO ANSWERS
L9 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s L9
SAMPLE SEARCH INITIATED 17:37:53 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      552 TO ITERATE

100.0% PROCESSED      552 ITERATIONS                              5 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         9631 TO    12449
PROJECTED ANSWERS:               5 TO      234

L10           5 SEA SSS SAM L9

=> s L9 full
FULL SEARCH INITIATED 17:37:58 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    10720 TO ITERATE

100.0% PROCESSED    10720 ITERATIONS                          145 ANSWERS
SEARCH TIME: 00.00.01

L11         145 SEA SSS FUL L9

=> fil caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                             161.33     972.37

FILE 'CAPLUS' ENTERED AT 17:38:02 ON 19 SEP 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)
```

FILE COVERS 1907 - 19 Sep 2005 VOL 143 ISS 13
FILE LAST UPDATED: 18 Sep 2005 (20050918/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s L11
L12 26 L11

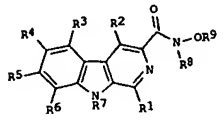
=> d ibib abs hitstr 1-26

L12 ANSWER 1 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:672885 CAPLUS
DOCUMENT NUMBER: 143:172853
TITLE: Preparation of β-carbolinehydroxamates as HIV integrase inhibitors
INVENTOR(S): Kuki, Atsuo; Li, Xinqiang; Plewe, Michael Bruno; Wang, Hai; Zhang, Junhu
PATENT ASSIGNEE(S): Agouron Pharmaceuticals, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 28 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005165040	A1	20050728	US 2004-765227	20040126
PRIORITY APPLN. INFO.:			US 2004-765227	20040126

GI

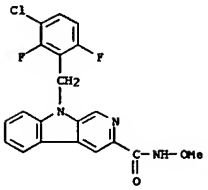


I

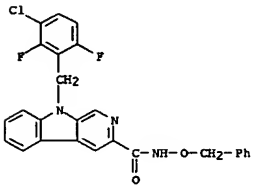
AB Title compds. [I; R1-R6 = H, halo, alkyl, alkoxyalkyl, alkenyl, alkynyl, NO2, ORc, N(Rc)2; Rc = H, alkyl, alkenyl, alkynyl; R7 = (substituted) alkyl, alkenyl, alkynyl; R8, R9 = H, (substituted) alkyl, alkenyl, alkynyl], were prepared Thus, Et 9H-β-carboline-3-carboxylate in DMF was treated with NaH and 4-fluorobenzyl bromide followed by stirring for 24 h. The resulting residue was stirred 5 days with NH2OH in MeOH/H2O to give 39% 9-(4-fluorobenzyl)-N-hydroxy-9H-β-carboline-3-carboxamide. The latter in an integrase strand-transfer scintillation proximity assay showed IC50 = 0.234 μM.

IT 737817-45-7P 737817-46-8P 737817-47-9P
737817-48-0P 737817-49-1P 737817-50-4P
737817-51-5P 737817-52-6P 737817-53-7P
737817-56-0P 737817-59-3P 737817-60-6P
737817-61-7P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(claimed compound; preparation of β-carbolinehydroxamates as HIV integrase inhibitors)

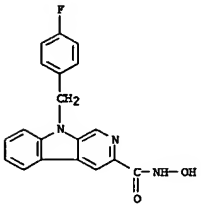
RN 737817-45-7 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(3-chloro-2,6-difluorophenyl)methyl]-N-methoxy- (9CI) (CA INDEX NAME)



RN 737817-46-8 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(3-chloro-2,6-difluorophenyl)methyl]-N-(phenylmethoxy)- (9CI) (CA INDEX NAME)



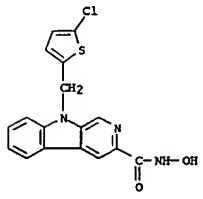
RN 737817-47-9 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(4-fluorophenyl)methyl]-N-hydroxy- (9CI) (CA INDEX NAME)



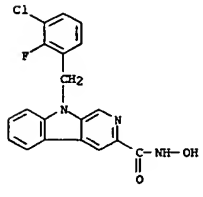
RN 737817-48-0 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(5-chloro-2-thienyl)methyl]-N-

L12 ANSWER 1 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

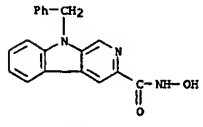
hydroxy- (9CI) (CA INDEX NAME)



RN 737817-49-1 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(3-chloro-2-fluorophenyl)methyl]-N-hydroxy- (9CI) (CA INDEX NAME)

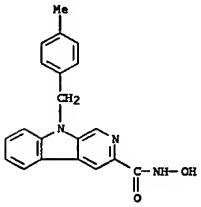


RN 737817-50-4 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-hydroxy-9-(phenylmethyl)- (9CI) (CA INDEX NAME)

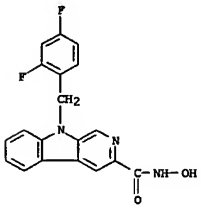


RN 737817-51-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-hydroxy-9-[(4-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

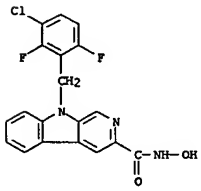
L12 ANSWER 1 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



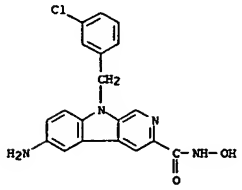
RN 737817-52-6 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(2,4-difluorophenyl)methyl]-N-hydroxy- (9CI) (CA INDEX NAME)



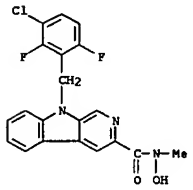
RN 737817-53-7 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(3-chloro-2,6-difluorophenyl)methyl]-N-hydroxy- (9CI) (CA INDEX NAME)



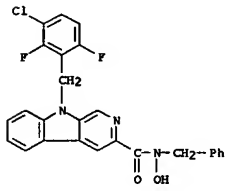
L12 ANSWER 1 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
RN 737817-56-0 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 6-amino-9-[(3-chlorophenyl)methyl]-N-hydroxy- (9CI) (CA INDEX NAME)



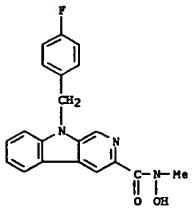
RN 737817-59-3 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(3-chloro-2,6-difluorophenyl)methyl]-N-hydroxy-N-methyl- (9CI) (CA INDEX NAME)



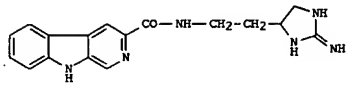
RN 737817-60-6 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(3-chloro-2,6-difluorophenyl)methyl]-N-hydroxy-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



L12 ANSWER 1 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
RN 737817-61-7 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(4-fluorophenyl)methyl]-N-hydroxy-N-methyl- (9CI) (CA INDEX NAME)

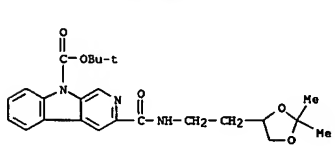


L12 ANSWER 2 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:614681 CAPLUS
DOCUMENT NUMBER: 143:169694
TITLE: Isolation and synthesis of a novel β-carboline guanidine derivative tiruchanduramine from the Indian ascidian Synoicum macroglossum
AUTHOR(S): Ravinder, K.; Reddy, A. Vijender; Krishnaiah, P.; Ramesh, P.; Ramakrishna, S.; Laatsch, H.; Venkateswarlu, Y.
CORPORATE SOURCE: Natural Products Laboratory, Organic Chemistry Division-I, Indian Institute of Chemical Technology, Hyderabad, 500 007, India
SOURCE: Tetrahedron Letters (2005), 46(33), 5475-5478
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



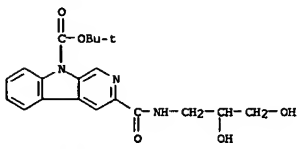
I

AB The isolation and synthesis of the racemic form of a novel β-carboline guanidine alkaloid, tiruchanduramine (I), a potent α-glucosidase inhibitor from the Indian ascidian, Synoicum macroglossum has been achieved.
IT 861257-02-5P 861257-03-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(isolation and synthesis of a novel β-carboline guanidine derivative tiruchanduramine from the Indian ascidian Synoicum macroglossum)
RN 861257-02-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



RN 861257-03-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

L12 ANSWER 2 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

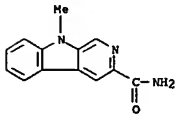
L12 ANSWER 3 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:1087087 CAPLUS
DOCUMENT NUMBER: 142:211490
TITLE: Study on the interactions between anti-HIV-1 active compounds with trans-activation response RNA by affinity capillary electrophoresis
AUTHOR(S): Ding, Li; Zhang, Xin-Xiang; Chang, Wen-Bao; Lin, Wei; Yang, Ming
CORPORATE SOURCE: College of Chemistry, Peking University, Beijing, 100871, Peop. Rep. China
SOURCE: Journal of Chromatography, B: Analytical Technologies in the Biomedical and Life Sciences (2005), 814(1), 99-104
CODEN: JCBAAI; ISSN: 1570-0232
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The study on the interactions between two antihuman immunodeficiency virus type 1 (anti-HIV-1) active compds. with trans-activation response (TAR) RNA by affinity capillary electrophoresis (ACE) with UV absorbance detection is presented. The results showed that the novel active mols. could interact with TAR RNA and inhibit the reproduce process of HIV-1. The binding consts. were estimated by the change of migration time of the analytes through the change of concns. of TAR RNA in the buffer solution The yielded binding consts. of 8.87 + 103 M-1 for active compound C3 and 8.42 + 103 M-1 for MC3 at 20.0°, 0.626 + 103 M-1 and 0.644 + 103 M-1 at 37.0°, resp. The thermodn. parameters ΔH and ΔS were obtained and shown that both hydrophobic and electrostatic interaction played roles in the binding processes. The results showed that the presented method was an easy and simple method to evaluate the interaction of small mols. with some bioactive materials.

IT 663171-03-7D, propylamido derivs.
RL: PAC (Pharmacological activity); PRP (Properties); BIOL (Biological study)
(interactions between anti-HIV-1 active compds. with trans-activation response RNA by affinity capillary electrophoresis)

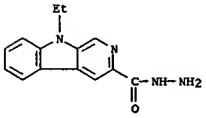
RN 663171-03-7 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-methyl- (9CI) (CA INDEX NAME)



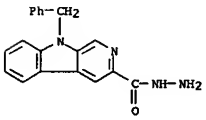
REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 4 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
(prepn. of harmine derivs. as antitumor agents)

RN 799821-69-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 9-ethyl-, hydrazide (9CI) (CA INDEX NAME)

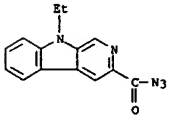


RN 799821-70-8 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 9-(phenylmethyl)-, hydrazide (9CI) (CA INDEX NAME)



IT 799822-04-1P 799822-05-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of harmine derivs. as antitumor agents)

RN 799822-04-1 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carbonyl azide, 9-ethyl- (9CI) (CA INDEX NAME)



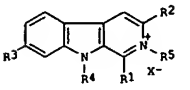
RN 799822-05-2 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carbonyl azide, 9-(phenylmethyl)- (9CI) (CA INDEX NAME)

L12 ANSWER 4 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:1059352 CAPLUS
DOCUMENT NUMBER: 142:23411
TITLE: Preparation of harmine derivatives as antitumor agents
INVENTOR(S): Wu, Jialin; Chen, Qi; Cao, Rihui; Yu, Fusheng; Wang, Zihou; Peng, Wenlie
PATENT ASSIGNEE(S): Xinjiang Huashidan Pharmaceutical Research Co., Ltd, Peop. Rep. China
SOURCE: PCT Int. Appl., 128 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004106335	A1	20041209	WO 2004-CN591	20040602
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CN 1552711	A	20041208	CN 2003-136406	20030602
PRIORITY APPLN. INFO.:			CN 2003-136406 A	20030602
OTHER SOURCE(S):	MARPAT 142:23411			

GI

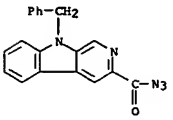


I

AB Harmine derivs. e.g. I (R1 = H, alkyl, aralkyl, haloaralkyl, etc.; R2 = H, carboxyl, amino, etc.; R3 = H, OH, alkoxy, etc.; R4 = H, alkyl, hydroxyalkyl, amino, etc.; R5 = H, alkyl, aralkyl, alkenyl, etc.; X = Br, iodo) are prepared The present invention produces new harmine derivs. with enhanced antitumor activity and lower nervous system toxicity by structural modification of the parent structure of β-carboline of harmines at position 1, 2, 3, 7 and 9. The compds. of the present invention can be prepared easily with high yield. They can be used in manufacture of a variety of antitumor medicines and medicines used in treatment of tumor diseases in combination of light or radiation therapy. Thus, 7-methoxy-9-ethyl-1-methyl-β-carboline was prepared and showed antitumor activity superior to that of harmine.

IT 799821-69-5P 799821-70-8P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

L12 ANSWER 4 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 5 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:648524 CAPLUS
DOCUMENT NUMBER: 141:207055
TITLE: Preparation of β-carboline hydroxamic acids as HIV-integrase inhibitors
INVENTOR(S): Kuki, Atsuo; Li, Xinqiang; Plewe, Michael Bruno; Wang, Hai; Zhang, Junhu
PATENT ASSIGNEE(S): Pfizer Inc., USA
SOURCE: PCT Int. Appl., 57 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004067531	A1	20040812	WO 2004-IB259	20040123
W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KP, KR, KR, KZ, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ, MZ, NA, NI				
PRIORITY APPLN. INFO.:			US 2003-443223P	P 20030127
OTHER SOURCE(S):	MARPAT 141:207055			

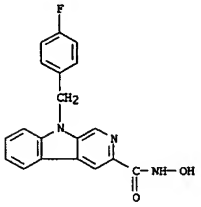
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

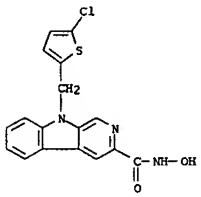
AB Beta-carboline hydroxamic acid compds. Title compds. I and II [wherein R1, R2, R3, R4, R5, R6 = independently H, halo, alkoxy/alkyl, alkenyl, alkynyl, OH and derivs., NO2, NH2 and derivs.; R7 = (un)substituted alk(en/yn)yl; R8, R9 = independently H, (un)substituted alk(en/yn)yl; X = (CR10R11)n; R10, R11 = independently H, halo, OH and derivs., NH and derivs., (un)substituted lower alk(en/yn)yl; n = 1-3; their pharmaceutically acceptable salts and solvates] were prepared as inhibitors or modulators the activity of HIV-integrase enzyme. Examples include 13 synthetic prepns., bioassays for HIV-integrase activity and HIV-1 cell protection. For example, III was prepared, in 39% yield, from Et 9H-3-carboline-3-carboxylate, 4-fluorobenzyl bromide and NH2OH. Selected I and II displayed IC50 values in the range of 0.234 - 0.713 μM for the inhibition of HIV-integrase. Thus, I and II are useful for treating HIV-integrase-mediated diseases and conditions (no data).

IT **737817-45-7P 737817-46-8P 737817-47-9P**, 9-(4-Fluorobenzyl)-N-hydroxy-9H-β-carboline-3-carboxamide **737817-48-0P**, 9-[(5-Chlorothien-2-yl)methyl]-N-hydroxy-9H-β-carboline-3-carboxamide **737817-49-1P**, 9-(3-Chloro-2-fluorobenzyl)-N-hydroxy-9H-β-carboline-3-carboxamide **737817-50-4P**, 9-Benzyl-N-hydroxy-9H-β-carboline-3-carboxamide **737817-51-5P**, 9-(4-Methylbenzyl)-N-Hydroxy-9H-β-carboline-3-carboxamide **737817-52-6P**, 9-(2,4-Difluorobenzyl)-N-hydroxy-9H-3-carboline-3-carboxamide **737817-53-7P**, 9-(3-Chloro-2,6-difluorobenzyl)-N-hydroxy-9H-β-carboline-3-carboxamide **737817-56-0P**, 6-Amino-9-(3-chlorobenzyl)-N-hydroxy-9H-β-carboline-3-carboxamide **737817-59-3P**, 9-(3-Chloro-2,6-difluorobenzyl)-N-hydroxy-N-methyl-9H-β-carboline-3-carboxamide

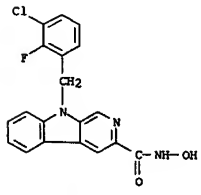
L12 ANSWER 5 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 737817-48-0 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(5-chloro-2-thienyl)methyl]-N-hydroxy- (9CI) (CA INDEX NAME)



RN 737817-49-1 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(3-chloro-2-fluorophenyl)methyl]-N-hydroxy- (9CI) (CA INDEX NAME)

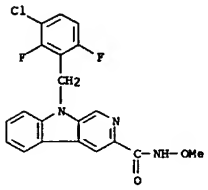


RN 737817-50-4 CAPLUS

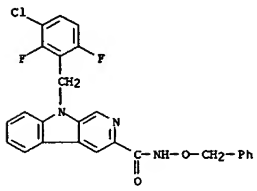
L12 ANSWER 5 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

737817-60-6P, N-Benzyl-9-(3-chloro-2,6-difluorobenzyl)-N-hydroxy-9H-β-carboline-3-carboxamide **737817-61-7P**, 9-(4-Fluorobenzyl)-N-hydroxy-N-methyl-9H-β-carboline-3-carboxamide
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(HIV-inhibitor; prepn. of β-carboline hydroxamic acids as HIV-integrase inhibitors)

RN 737817-45-7 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(3-chloro-2,6-difluorophenyl)methyl]-N-methoxy- (9CI) (CA INDEX NAME)



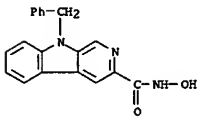
RN 737817-46-8 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(3-chloro-2,6-difluorophenyl)methyl]-N-(phenylmethoxy)- (9CI) (CA INDEX NAME)



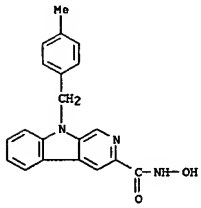
RN 737817-47-9 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(4-fluorophenyl)methyl]-N-hydroxy- (9CI) (CA INDEX NAME)

L12 ANSWER 5 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

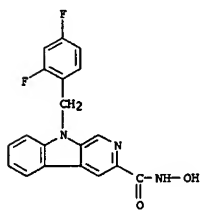
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-hydroxy-9-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 737817-51-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-hydroxy-9-[(4-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

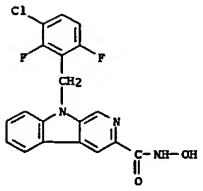


RN 737817-52-6 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(2,4-difluorophenyl)methyl]-N-hydroxy- (9CI) (CA INDEX NAME)

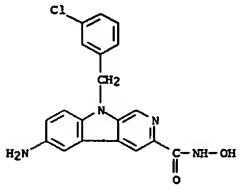


RN 737817-53-7 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(3-chloro-2,6-

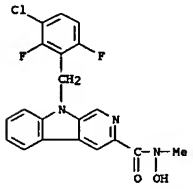
L12 ANSWER 5 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
difluorophenyl)methyl]-N-hydroxy- (9CI) (CA INDEX NAME)



RN 737817-56-0 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 6-amino-9-[(3-chlorophenyl)methyl]-N-hydroxy- (9CI) (CA INDEX NAME)

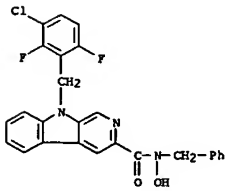


RN 737817-59-3 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(3-chloro-2,6-difluorophenyl)methyl]-N-hydroxy-N-methyl- (9CI) (CA INDEX NAME)

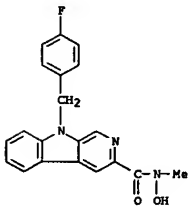


RN 737817-60-6 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(3-chloro-2,6-

L12 ANSWER 5 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
difluorophenyl)methyl]-N-hydroxy-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



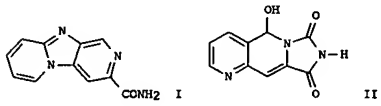
RN 737817-61-7 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(4-fluorophenyl)methyl]-N-hydroxy-N-methyl- (9CI) (CA INDEX NAME)



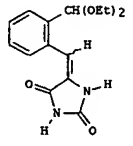
L12 ANSWER 6 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:	2003:981284 CAPLUS
DOCUMENT NUMBER:	140:199262
TITLE:	Synthesis of carbamoylpyridine and imidazo[1,5-a]pyridine-1,3-diones via ortho-acetalhydantoin intermediates
AUTHOR(S):	Chezal, Jean M.; Moreau, Emmanuel; Desbois, Nicolas; Blache, Yves; Chavignon, Olivier; Teulade, Jean C.
CORPORATE SOURCE:	Faculte de Pharmacie UMR-INSERM 484, Clermont-Ferrand, 63001, Fr.
SOURCE:	Tetrahedron Letters (2004), 45(3), 553-556 CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER:	Elsevier Science B.V.
DOCUMENT TYPE:	Journal
LANGUAGE:	English
OTHER SOURCE(S):	CASREACT 140:199262

GI



I II



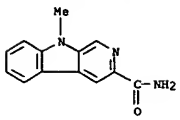
III

AB A method for preparing carbamoylpyridines, e.g., I, and imidazo[1,5-a]pyridine-1,3-diones, e.g., II, from ortho-acetalarylideneimidazolidine-2,4-diones, e.g., III, is described. Ortho-Acetalarylideneimidazolidine-2,4-diones, prepared from ortho-acetalarylaldehydes, underwent an intramol. cyclization to give the imidazopyridinediones. In some cases the imidazopyridinediones underwent hydrolysis and decarboxylation to give the corresponding carbamoylpyridines.

IT **663171-03-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of arenopyridinecarboxamides via formylation of (diethoxymethyl)aryl bromides followed by olefination with di-Et dioxoimidazolidinephosphonate, deprotection, heterocyclization, hydrolysis, and decarboxylation)

RN 663171-03-7 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-methyl- (9CI) (CA INDEX NAME)

L12 ANSWER 6 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

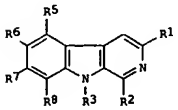


REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 7 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:978994 CAPLUS
DOCUMENT NUMBER: 140:5035
TITLE: 3-Substituted beta-carboline derivatives having anti-HIV and antitumor activities
INVENTOR(S): Yang, Ming; Lin, Wei; Yu, Xiaolin; Xiao, Sulong; Li, Jingyun
PATENT ASSIGNEE(S): Peking Univ., Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 15 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1358720	A	20020717	CN 2001-144531	20011219
PRIORITY APPLN. INFO.:			CN 2001-144531	20011219

OTHER SOURCE(S): CASREACT 140:5035; MARPAT 140:5035
GI



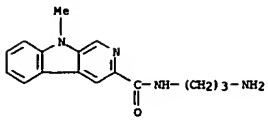
I

AB Title compds. I (R1 = COR4 or CONHR4; R2 = H, C1-6 alkyl, or COR4; R3 = H, C1-6 alkyl, or aryl-C1-6 alkyl; R4 = H, C1-6 alkyl, aryl, cycloalkyl, heterocyclic group, C1-6 alkylamino, C1-6 alkylguanidino, or di(C1-6 alkyl)amino; and R5, R6, R7, and/or R8 = H, halo, C1- 6 alkyl, hydroxy, C1-6 alkoxy, acyloxy, C1-6 acyl, aroyl, or aryl-C1-6 alkoxy) and their medical salts are synthesized by esterification of tryptophan derivative with methanol to obtain ester, Pictet-Spengler reaction with R2CHO to obtain 1,2,3,4-tetrahydro-9H-beta-carboline derivative, oxidation, and amidation. The carboline derivs. may be used as anti-HIV and antitumor agents and also as antioxidant in foods and drugs.

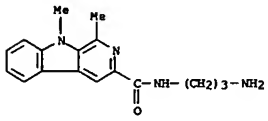
IT 627460-46-2P 627460-50-8P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 3-substituted beta-carboline derivs. having anti-HIV and antitumor activities)

RN 627460-46-2 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-(3-aminopropyl)-9-methyl- (9CI) (CA INDEX NAME)

L12 ANSWER 7 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



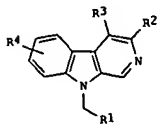
RN 627460-50-8 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-(3-aminopropyl)-1,9-dimethyl- (9CI) (CA INDEX NAME)



L12 ANSWER 8 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:401649 CAPLUS
DOCUMENT NUMBER: 133:43450
TITLE: Preparation of β-carbolines as non-peptide antagonists of GLP-1 receptor
INVENTOR(S): Truesdale, Larry Kenneth; Bychowski, Richard A.; Gonzalez, Javier; Kuki, Atsuo; Rajapakse, Ranjan Jagath; Teng, Min; Kiel, Dan; Dhanoa, Daljit S.; Hong, Yufeng; Chou, Tso-Sheng; Ling, Anthony L.; Johnson, Michael David; Gregor, Vlad Edward
PATENT ASSIGNEE(S): Agouron Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 87 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000033839	A1	20000615	WO 1999-US29065	19991208
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2350887	AA	20000615	CA 1999-2350887	19991208
EP 1137413	A2	20011004	EP 1999-960663	19991208
EP 1137413	B1	20050202		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9916965	A	20011106	BR 1999-16965	19991208
AU 758968	B2	20030403	AU 2000-17518	19991208
NZ 511698	A	20030926	NZ 1999-511698	19991208
AT 288268	E	20050215	AT 1999-960663	19991208
PT 1137413	T	20050531	PT 1999-960663	19991208
ES 2233089	T3	20050601	ES 1999-960663	19991208
ZA 2001004128	A	20020521	ZA 2001-4128	20010521
US 6469021	B1	20021022	US 2001-831572	20011026
PRIORITY APPLN. INFO.:			US 1998-111736P P	19981210
			WO 1999-US29065 W	19991208

OTHER SOURCE(S): MARPAT 133:43450
GI

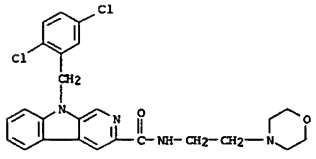


I

L12 ANSWER 8 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
AB The title compds. [I; R1 = (un)substituted Ph, pyridyl; R2 = COH, CO2H, CO2alkoxy, etc.; R3 = H, alkyl, alkenyl, etc.; R2 and R3 together with the atoms to which they are bound form (un)substituted 5-6 membered ring containing one or two heteroatoms selected from O, N, and S; R4 = H, NH2, halo, etc.], non-peptide compds. that act as antagonists of the intestinal hormone glucagon-like peptide 1 (GLP-1), and are useful in inhibiting the binding of GLP-1 to the GLP-1 receptor and inhibiting the activation of the GLP-1 receptor, were prepared and formulated. Thus, treatment of Me 9H-β-carboline-3-carboxylate (preparation given) with NaH in DMF followed by addition of 2,5-dichlorobenzyl chloride afforded 88% I [R1 = 2,5-Cl2C6H3; R2 = CO2Me; R3 = R4 = H]. The compds. I exhibit advantageous phys., chemical and biol. properties and inhibit GLP-1 peptide binding to the GLP-1 receptor and/or prevent activation of the receptor by bound GLP-1.

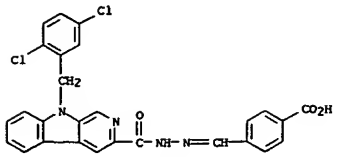
IT 274919-58-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of β-carbolines as non-peptide antagonists of GLP-1 receptor)

RN 274919-58-3 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(2,5-dichlorophenyl)methyl]-N-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

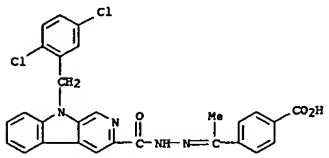


IT 274919-60-7P 274919-61-8P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of β-carbolines as non-peptide antagonists of GLP-1 receptor)

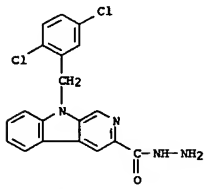
RN 274919-60-7 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 9-[(2,5-dichlorophenyl)methyl]-, [(4-carboxyphenyl)methylene]hydrazide (9CI) (CA INDEX NAME)



RN 274919-61-8 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 9-[(2,5-dichlorophenyl)methyl]-, [1-(4-carboxyphenyl)ethylidene]hydrazide (9CI) (CA INDEX NAME)

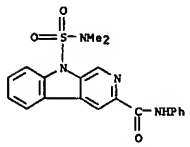


IT 274919-83-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of β-carbolines as non-peptide antagonists of GLP-1 receptor)
RN 274919-83-4 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxylic acid, 9-[(2,5-dichlorophenyl)methyl]-, hydrazide (9CI) (CA INDEX NAME)

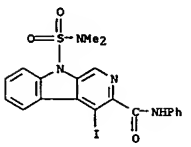


REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

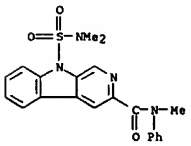
ACCESSION NUMBER: 1999:241400 CAPLUS
DOCUMENT NUMBER: 130:338040
TITLE: Preparation of 4-iodo-β-carboline-3-carboxamide via ortho-metalation and its use in palladium-catalyzed carbon-carbon bond forming reactions with unsaturated substrates
AUTHOR(S): Batch, Alexandre; Dodd, Robert H.
CORPORATE SOURCE: Institut de Chimie des Substances Naturelles, Centre National de la Recherche Scientifique, Gif-sur-Yvette, 91198, Fr.
SOURCE: Heterocycles (1999), 50(2), 875-885
CODEN: HTCYAM; ISSN: 0385-5414
PUBLISHER: Japan Institute of Heterocyclic Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 130:338040
AB The 4-iodo derivative of N-9 protected β-carboline-3-(N-methyl)-3-(N-phenyl)carboxamide (I) was prepared by sequential treatment of N-9 protected β-carboline-3-(N-phenyl)carboxamide with methyllithium, iodine and Me iodide. I in the presence of catalytic palladium acetate and tri-o-tolylphosphine in acetonitrile and triethylamine reacted with a variety of unsatd. substrates (styrenes, acrylate, tributyl(vinyl)tin, trimethylsilylacetylene) to give the corresponding C-4 coupled adducts.
IT 200809-36-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of 4-iodo-β-carboline-3-carboxamide via ortho-metalation and its use in palladium-catalyzed carbon-carbon bond forming reactions with unsatd. substrates)
RN 200809-36-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(dimethylamino)sulfonyl]-N-phenyl- (9CI) (CA INDEX NAME)



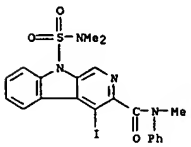
IT 224301-72-8P 224301-83-1P 224301-99-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 4-iodo-β-carboline-3-carboxamide via ortho-metalation and its use in palladium-catalyzed carbon-carbon bond forming reactions with unsatd. substrates)
RN 224301-72-8 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(dimethylamino)sulfonyl]-4-iodo-N-phenyl- (9CI) (CA INDEX NAME)



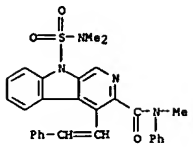
RN 224301-83-1 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(dimethylamino)sulfonyl]-N-methyl-N-phenyl- (9CI) (CA INDEX NAME)



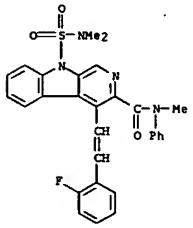
RN 224301-99-9 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(dimethylamino)sulfonyl]-4-iodo-N-methyl-N-phenyl- (9CI) (CA INDEX NAME)



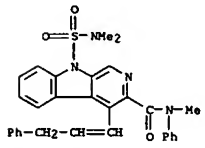
IT 224302-05-0P 224302-13-0P 224302-16-3P
224302-20-9P 224302-23-2P 224302-30-1P
224302-34-5P 224302-37-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of 4-iodo-β-carboline-3-carboxamide via ortho-metalation and its use in palladium-catalyzed carbon-carbon bond forming reactions with unsatd. substrates)
RN 224302-05-0 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(dimethylamino)sulfonyl]-N-methyl-N-phenyl-4-(2-phenylethenyl)- (9CI) (CA INDEX NAME)



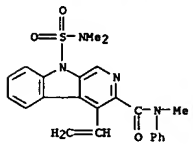
RN 224302-13-0 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(dimethylamino)sulfonyl]-4-[2-(2-fluorophenyl)ethenyl]-N-methyl-N-phenyl- (9CI) (CA INDEX NAME)



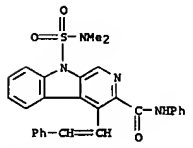
RN 224302-16-3 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(dimethylamino)sulfonyl]-N-methyl-N-phenyl-4-(3-phenyl-1-propenyl)- (9CI) (CA INDEX NAME)



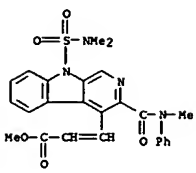
RN 224302-20-9 CAPLUS
CN 2-Propenoic acid, 3-[9-[(dimethylamino)sulfonyl]-3-[(methylphenylamino)carbonyl]-9H-pyrido[3,4-b]indol-4-yl]-, methyl ester (9CI) (CA INDEX NAME)



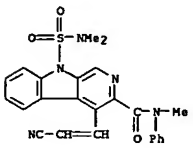
RN 224302-37-8 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(dimethylamino)sulfonyl]-N-phenyl-4-(2-phenylethenyl)- (9CI) (CA INDEX NAME)



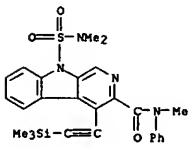
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT



RN 224302-23-2 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 4-(2-cyanoethenyl)-9-[(dimethylamino)sulfonyl]-N-methyl-N-phenyl- (9CI) (CA INDEX NAME)

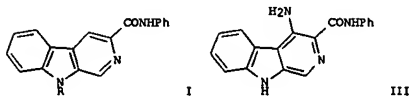


RN 224302-30-1 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(dimethylamino)sulfonyl]-N-methyl-N-phenyl-4-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)



RN 224302-34-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(dimethylamino)sulfonyl]-4-ethenyl-N-methyl-N-phenyl- (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 1998:48113 CAPLUS
DOCUMENT NUMBER: 128:88808
TITLE: Ortho-Directed Metalation of 3-Carboxy-β-carbolines: Use of the SmI2-Cleavable 9-N-(N',N'-Dimethylsulfamoyl) Blocking Group for the Preparation of 9-N-Deprotected 4-Amino Derivatives via Azide Introduction or a Palladium-Catalyzed Cross-Coupling Reaction
AUTHOR(S): Batch, Alexandre; Dodd, Robert H.
CORPORATE SOURCE: Institut de Chimie des Substances Naturelles, Centre National de la Recherche Scientifique, Gif-sur-Yvette, 91198, Fr.
SOURCE: Journal of Organic Chemistry (1998), 63(3), 872-877
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 128:88808
GI

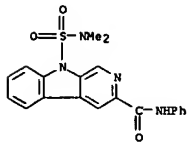


I III

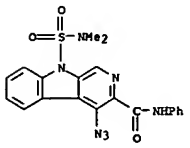
AB Introduction of a N,N-dimethylsulfamoyl moiety as a stable but easily removed blocking group for the 9-N position of 3-carboxy-β-carbolines allowed preparation, via ortho-directed metalation, of 4-substituted derivs. E.g., treating I (R = H) with NaH, followed by ClSO2NMe2, gave I (R = SO2NMe2) (II). Azidation of II (via lithiation and treatment with trisyl azide), followed by hydrogenation, and removal of the N,N-dimethylsulfamoyl group with SmI2/DMPU/THF gave III.

IT 200809-36-5P 200809-38-7P 200809-39-8P
200809-41-2P 200809-42-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(ortho-directed metalation of carboxycarbolines)

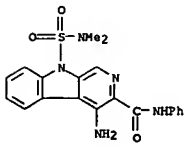
RN 200809-36-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(dimethylamino)sulfonyl]-N-phenyl- (9CI) (CA INDEX NAME)



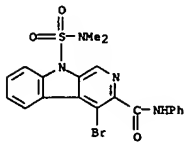
L12 ANSWER 10 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
RN 200809-38-7 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 4-azido-9-[(dimethylamino)sulfonyl]-N-phenyl- (9CI) (CA INDEX NAME)



RN 200809-39-8 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 4-amino-9-[(dimethylamino)sulfonyl]-N-phenyl- (9CI) (CA INDEX NAME)

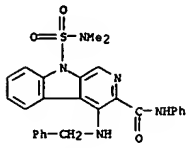


RN 200809-41-2 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 4-bromo-9-[(dimethylamino)sulfonyl]-N-phenyl- (9CI) (CA INDEX NAME)



RN 200809-42-3 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(dimethylamino)sulfonyl]-N-phenyl-4-[(phenylmethyl)amino]- (9CI) (CA INDEX NAME)

L12 ANSWER 10 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

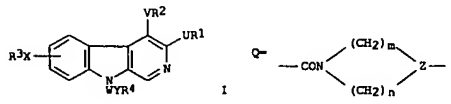
L12 ANSWER 11 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:	1996:537321 CAPLUS
DOCUMENT NUMBER:	125:195628
TITLE:	New 9H-pyrido[3,4-b]indole derivatives useful as LTB4 antagonists.
INVENTOR(S):	Skuballa, Werner; Buchmann, Bernd; Rehwinkel, Hartmut; Schneider, Frank; Froehlich, Wolfgang; Giesen, Claudia; Hennekes, Hartwig
PATENT ASSIGNEE(S):	Schering A.-G., Germany
SOURCE:	Ger. Offen., 11 pp. CODEN: GWXXBX
DOCUMENT TYPE:	Patent
LANGUAGE:	German
FAMILY ACC. NUM. COUNT:	1

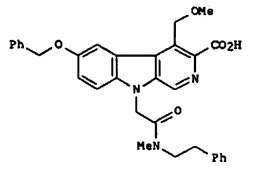
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19502753	A1	19960725	DE 1995-19502753	19950123
CA 2210501	AA	19960801	CA 1996-2210501	19960119
WO 9622989	A1	19960801	WO 1996-EP213	19960119
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 805810	A1	19971112	EP 1996-901309	19960119
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
JP 10512579	T2	19981202	JP 1996-522605	19960119
US 5880126	A	19990309	US 1997-875090	19971208
PRIORITY APPLN. INFO.:			DE 1995-19502753 A	19950123
			WO 1996-EP213 W	19960119

OTHER SOURCE(S): MARPAT 125:195628
GI



I



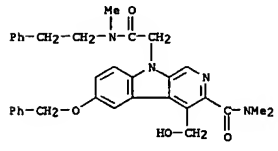
II

AB Title compds. I [U, V, W = bond, C1-6 alkylene; R1 = H, OH, CO2H; R2 = H, OH, alkoxy, alkanoyloxy, ω-carboxyalkoxy; or R1R2 = oxycarbonyl; X = bond, O; Y = bond, CONR', heterocyclic amide group Q; R' = H, alkyl, carboxyalkyl; (m + n) = 3, 4, 5; Z = CH, N; R3, R4 = (un)substituted Ph, phenylalkyl, or naphthyl] and their physiol. acceptable esters, amides, and salts are disclosed. Surprisingly, I and derivs. show marked leukotriene B4 antagonistic activity (no data), and a completely different activity spectrum from the known 9-unsubstituted analogs, which are psychopharmaceuticals. Thus, I are potentially useful as antiinflammatories, antiallergics, and antiproliferatives. For example, N-alkylation of 6-(benzyloxy)-4-(methoxymethyl)-9H-pyrido[3,4-b]indole-3-carboxylic acid 1-methylethyl ester using BrCH2CONMeCH2CH2Ph and NaH in THF, followed by sapon. with NaOH in aq. MeOH, gave title compd. II.

L12 ANSWER 11 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

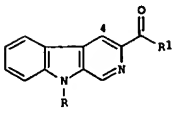
IT 180512-81-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of pyridoindole derivs. as LTB4 antagonists)

RN 180512-81-6 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-acetamide, 3-[(dimethylamino)carbonyl]-4-(hydroxymethyl)-N-methyl-N-(2-phenylethyl)-6-(phenylmethoxy)- (9CI) (CA INDEX NAME)



L12 ANSWER 12 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:933387 CAPLUS
DOCUMENT NUMBER: 124:117133
TITLE: Regioselective metalation of 9-methoxymethyl-β-carboline-3-carboxamides with amidomagnesium chlorides
AUTHOR(S): Schlecker, Wolfgang; Huth, Andreas; Ottow, Eckhard; Mulzer, Johann
CORPORATE SOURCE: Schering AG Berlin, Berlin, D-13353, Germany
SOURCE: Synthesis (1995), (10), 1225-7
CODEN: SYNTBF; ISSN: 0039-7881
PUBLISHER: Thieme
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 124:117133
GI

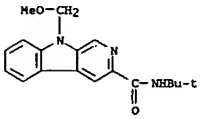


I

AB The N-protected β-carbolines I (R = CH2OMe; R1 = NHCMe3, NHMe) underwent exclusive metalation at C(4) with R2MgCl (R2 = 2,2,6,6-tetramethylpiperidino) and/or Et2NMgCl, whereas the unprotected β-carboline I (R = H; R1 = NHMe) was inert under these conditions. The C(4) metalated species reacted with electrophiles to give 3,4-disubstituted β-carbolines, which are interesting precursors to physiol. active compds.

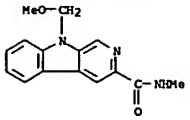
IT 173035-12-6P 173035-13-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 3,4-disubstituted carbolines by regioselective metalation of methoxymethylcarbolinecarboxamides with amidomagnesium chlorides)

RN 173035-12-6 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-(1,1-dimethylethyl)-9-(methoxymethyl)- (9CI) (CA INDEX NAME)



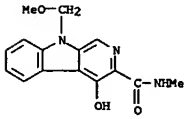
RN 173035-13-7 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-(methoxymethyl)-N-methyl- (9CI) (CA INDEX NAME)

L12 ANSWER 12 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



IT 173035-16-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of 3,4-disubstituted carbolines by regioselective metalation of methoxymethylcarbolinecarboxamides with amidomagnesium chlorides)

RN 173035-16-0 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 4-hydroxy-9-(methoxymethyl)-N-methyl- (9CI) (CA INDEX NAME)

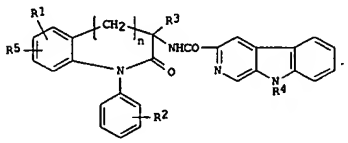


L12 ANSWER 13 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:795473 CAPLUS
DOCUMENT NUMBER: 123:306611
TITLE: Cholecystokinin antagonists containing β-carbolines
INVENTOR(S): Yamada, Koichiro; Hikoda, Masakatsu; Yura, Takeshi; Kano, Toshiaki; Nagasaki, Masaaki
PATENT ASSIGNEE(S): Tanabe Seiyaku Co, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07145055	A2	19950606	JP 1993-296181	19931126
PRIORITY APPLN. INFO.:			JP 1993-296181	19931126

OTHER SOURCE(S): MARPAT 123:306611
GI



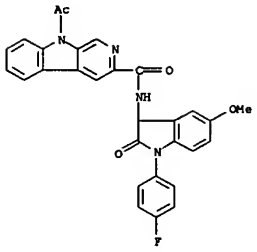
I

AB Cholecystokinin (CCK) antagonists, useful for prevention and treatment of pancreatic and gastrointestinal disorders and loss of appetite, contain β-carbolines I [R1 = H, lower alkyl, lower alkoxy, OH; R5 = H; R1R5 may form lower alkylenedioxy; R2 = H, halo, lower alkoxy, OH; R3 = H, lower alkyl, carboxy-lower alkyl, lower alkoxycarbonyl-lower alkyl; R4 = H, lower alkyl, carboxy-lower alkyl, lower alkoxycarbonyl-lower alkyl, lower alkanoyl, arylcarbonyl, lower alkanesulfonyl, lower alkoxycarbonyl, aralkyl, CHO, di(lower alkyl)sulfamoyl; n = 0, 1, 2] and their pharmacol. acceptable salts as active ingredients. (±)-3-[(9H-pyrido[3,4-b]indol-3-yl)carbonylamino]-1-phenyl-2-indolinone inhibited the binding of CCK-8 to the receptors with IC50 of 5 + 10-9M. Preparation procedures of the compds. are given.

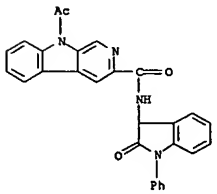
IT 154057-99-5P 154058-00-1P 154058-11-4P 154058-19-2P 154058-20-5P 169200-49-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of; β-carbolines as cholecystokinin antagonists for prevention and treatment of pancreatic and gastrointestinal disorders)

RN 154057-99-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-2-oxo-1H-indol-3-yl]- (9CI) (CA INDEX NAME)

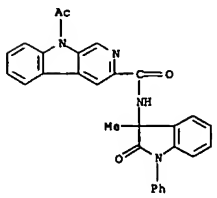
L12 ANSWER 13 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



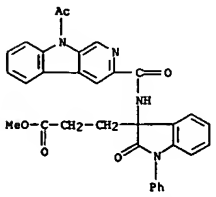
RN 154058-00-1 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-(2,3-dihydro-2-oxo-1-phenyl-1H-indol-3-yl)- (9CI) (CA INDEX NAME)



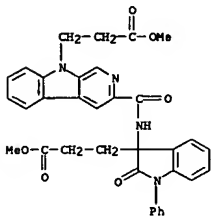
RN 154058-11-4 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-(2,3-dihydro-3-methyl-2-oxo-1-phenyl-1H-indol-3-yl)- (9CI) (CA INDEX NAME)



RN 154058-19-2 CAPLUS
CN 1H-Indole-3-propanoic acid, 3-[[(9-acetyl-9H-pyrido[3,4-b]indol-3-yl)carbonyl]amino]-2,3-dihydro-2-oxo-1-phenyl-, methyl ester (9CI) (CA INDEX NAME)

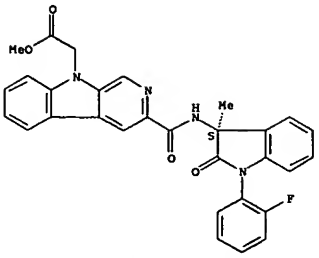


RN 154058-20-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-propanoic acid, 3-[[[2,3-dihydro-3-(3-methoxy-3-oxopropyl)-2-oxo-1-phenyl-1H-indol-3-yl]amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)



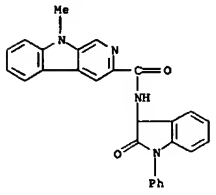
RN 169200-49-1 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-acetic acid, 3-[[[1-(2-fluorophenyl)-2,3-dihydro-3-methyl-2-oxo-1H-indol-3-yl]amino]carbonyl]-, methyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

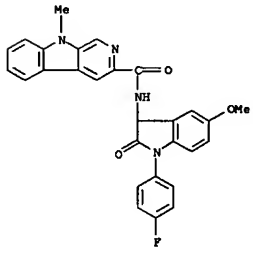


IT 154058-01-2P 154058-02-3P 154058-12-5P, 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]- 154058-13-6P 154058-14-7P 154058-15-8P 154058-16-9P 154058-21-6P 154058-23-8P, 9H-Pyrido[3,4-b]indole-9-propanoic acid, 3-[[[3-(2-carboxyethyl)-2,3-dihydro-2-oxo-1-phenyl-1H-indol-3-yl]amino]carbonyl]- 154058-36-3P 154058-37-4P 154058-38-5P 154058-39-6P 154058-40-9P 154058-41-0P 154058-42-1P 154058-43-2P 154058-44-3P 154058-45-4P 154058-46-5P 154058-47-6P 154058-48-7P 154058-49-8P 154058-50-1P 154058-51-2P 154058-66-9P 154058-73-8P 169200-42-4P 169200-43-5P 169200-45-7P 169200-46-8P 169200-47-9P 169200-48-0P 169200-50-4P 169200-51-5P 169200-52-6P 169200-53-7P 169200-54-8P 169200-55-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of β-carbolines as cholecystokinin antagonists for prevention and treatment of pancreatic and gastrointestinal disorders)

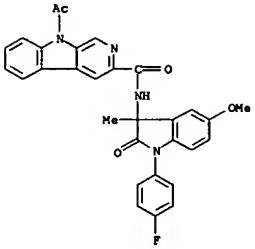
RN 154058-01-2 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-(2,3-dihydro-2-oxo-1-phenyl-1H-indol-3-yl)-9-methyl- (9CI) (CA INDEX NAME)



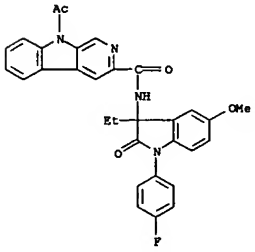
RN 154058-02-3 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-2-oxo-1H-indol-3-yl]-9-methyl- (9CI) (CA INDEX NAME)



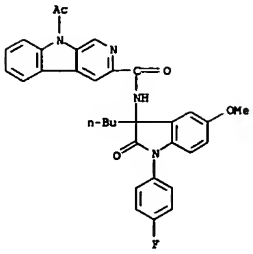
RN 154058-12-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]- (9CI) (CA INDEX NAME)



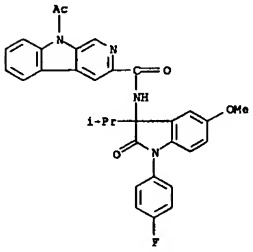
RN 154058-13-6 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[3-ethyl-1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-2-oxo-1H-indol-3-yl]- (9CI) (CA INDEX NAME)



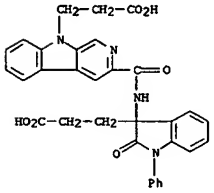
RN 154058-14-7 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[3-butyl-1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-2-oxo-1H-indol-3-yl]- (9CI) (CA INDEX NAME)



RN 154058-15-8 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-(1-methylethyl)-2-oxo-1H-indol-3-yl]- (9CI) (CA INDEX NAME)

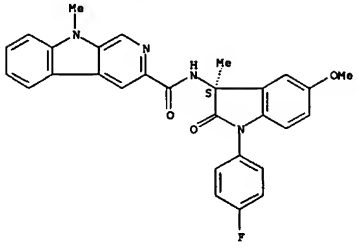


RN 154058-16-9 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[1-(4-fluorophenyl)-2,3-dihydro-5-hydroxy-2-oxo-1H-indol-3-yl]- (9CI) (CA INDEX NAME)



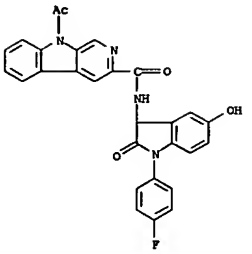
RN 154058-36-3 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-9-methyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

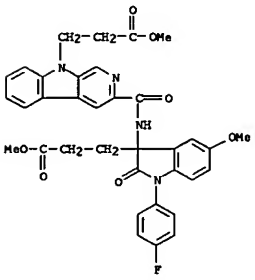


RN 154058-37-4 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-benzoyl-N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-, (S)- (9CI) (CA INDEX NAME)

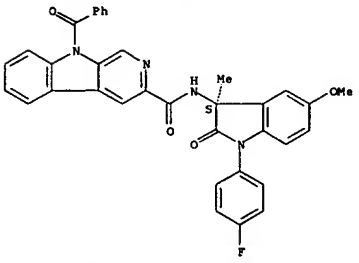
Absolute stereochemistry.



RN 154058-21-6 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-propanoic acid, 3-[[[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-(3-methoxy-3-oxopropyl)-2-oxo-1H-indol-3-yl]amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

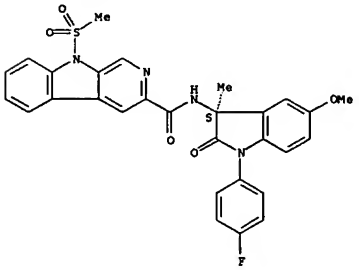


RN 154058-23-8 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-propanoic acid, 3-[[[3-(2-carboxyethyl)-2,3-dihydro-2-oxo-1-phenyl-1H-indol-3-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



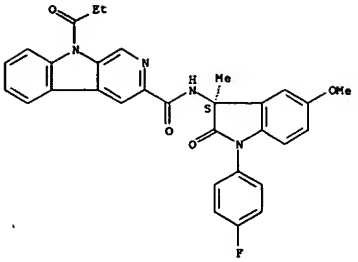
RN 154058-38-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-9-(methylsulfonyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



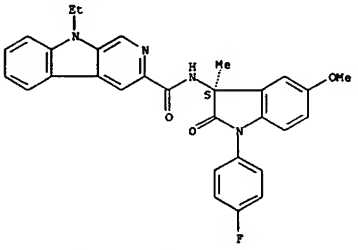
RN 154058-39-6 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-9-(1-oxopropyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



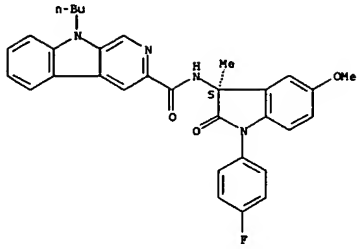
RN 154058-40-9 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-ethyl-N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



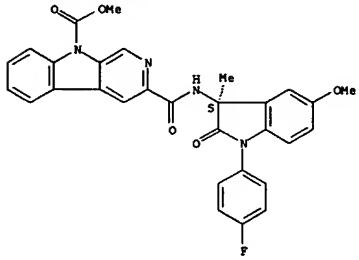
RN 154058-41-0 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-butyl-N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



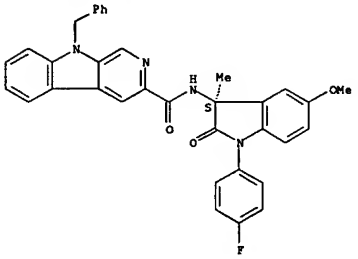
RN 154058-42-1 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-carboxylic acid, 3-[[[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]amino]carbonyl]-, methyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



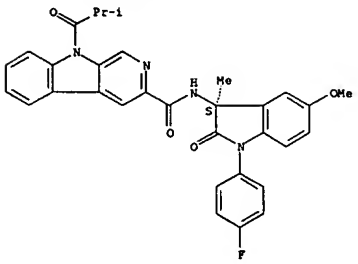
RN 154058-43-2 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-9-(phenylmethyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



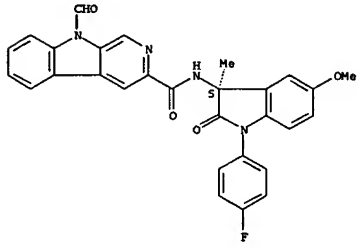
RN 154058-44-3 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-9-(2-methyl-1-oxopropyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



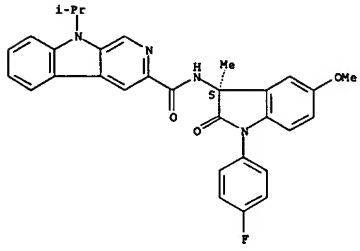
RN 154058-45-4 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-9-formyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 154058-46-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-9-(1-methylethyl)-, (S)- (9CI) (CA INDEX NAME)

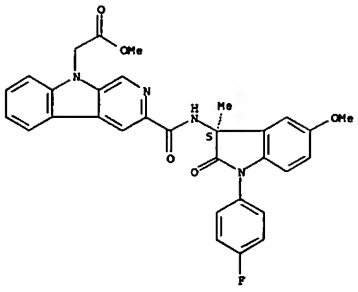
Absolute stereochemistry.



RN 154058-47-6 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-acetic acid, 3-[[[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]amino]carbonyl]-, methyl ester, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



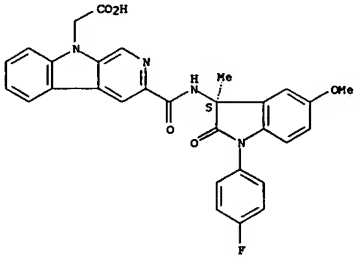
PAGE 2-A

● HCl

RN 154058-48-7 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-acetic acid, 3-[[[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]amino]carbonyl]-, monosodium salt, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



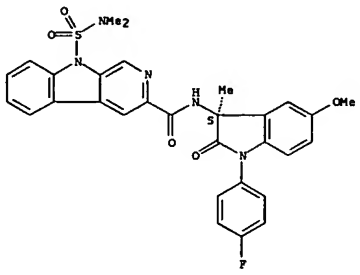
PAGE 2-A

● Na

RN 154058-49-8 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(dimethylamino)sulfonyl]-N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

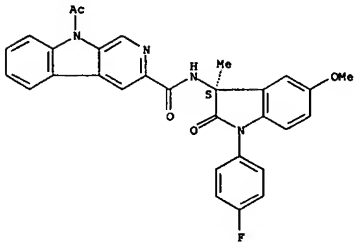


PAGE 2-A

● HCl

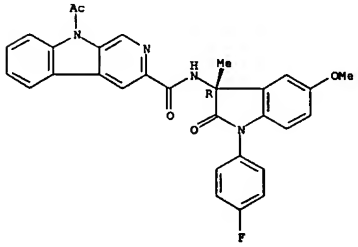
RN 154058-50-1 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

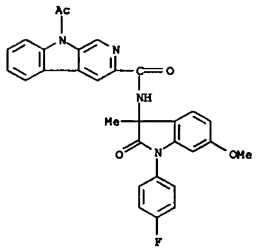


RN 154058-51-2 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-, (R)- (9CI) (CA INDEX NAME)

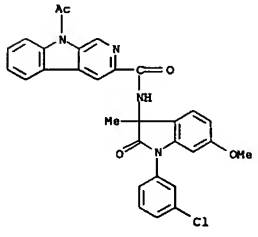
Absolute stereochemistry.



RN 154058-66-9 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[1-(4-fluorophenyl)-2,3-dihydro-6-methoxy-3-methyl-2-oxo-1H-indol-3-yl]- (9CI) (CA INDEX NAME)

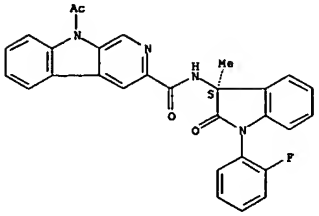


RN 154058-73-8 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[1-(3-chlorophenyl)-2,3-dihydro-6-methoxy-3-methyl-2-oxo-1H-indol-3-yl]- (9CI) (CA INDEX NAME)



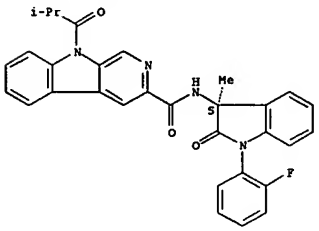
RN 169200-42-4 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[1-(2-fluorophenyl)-2,3-dihydro-3-methyl-2-oxo-1H-indol-3-yl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 169200-43-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[1-(2-fluorophenyl)-2,3-dihydro-3-methyl-2-oxo-1H-indol-3-yl]-9-(2-methyl-1-oxopropyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

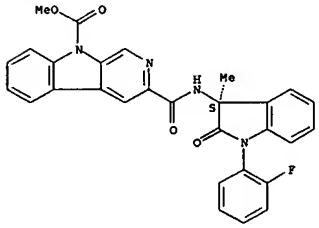


RN 169200-45-7 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-ethyl-N-[1-(2-fluorophenyl)-2,3-dihydro-3-methyl-2-oxo-1H-indol-3-yl]-, (S)-, monomethanesulfonate (9CI) (CA INDEX NAME)

CM 1

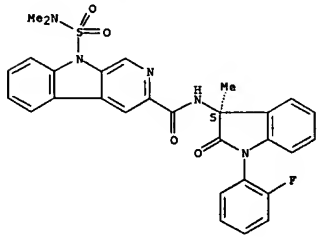
CRN 169200-44-6
CMF C29 H23 F N4 O2

Absolute stereochemistry.



RN 169200-47-9 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-carboxylic acid, 3-[[[1-(2-fluorophenyl)-2,3-dihydro-3-methyl-2-oxo-1H-indol-3-yl]amino]carbonyl]-, methyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

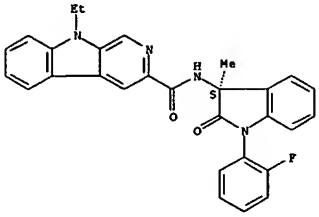


RN 169200-48-0 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(dimethylamino)sulfonyl]-N-[1-(2-fluorophenyl)-2,3-dihydro-3-methyl-2-oxo-1H-indol-3-yl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 169200-50-4 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-acetic acid, 3-[[[1-(2-fluorophenyl)-2,3-dihydro-3-methyl-2-oxo-1H-indol-3-yl]amino]carbonyl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

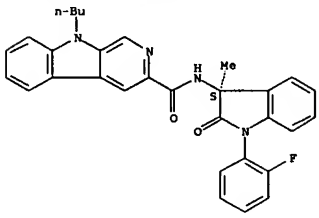


CM 2

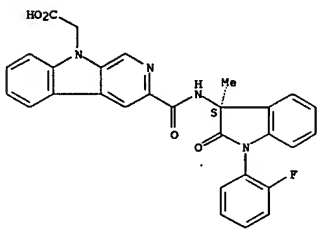
CRN 75-75-2
CMF C H4 O3 S

RN 169200-46-8 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-butyl-N-[1-(2-fluorophenyl)-2,3-dihydro-3-methyl-2-oxo-1H-indol-3-yl]-, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

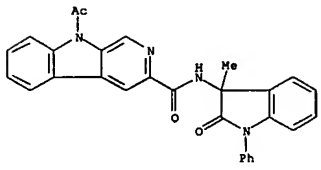


● HCl



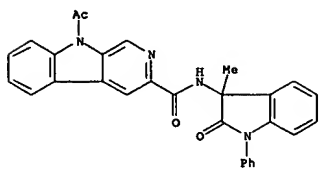
RN 169200-51-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-(2,3-dihydro-3-methyl-2-oxo-1-phenyl-1H-indol-3-yl)-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).



RN 169200-52-6 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-(2,3-dihydro-3-methyl-2-oxo-1-phenyl-1H-indol-3-yl)-, (+)- (9CI) (CA INDEX NAME)

Rotation (+).

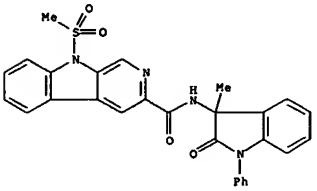


RN 169200-53-7 CAPLUS

L12 ANSWER 13 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-(2,3-dihydro-3-methyl-2-oxo-1-phenyl-1H-indol-3-yl)-9-(methylsulfonyl)-, (+)- (9CI) (CA INDEX NAME)

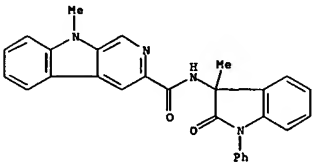
Rotation (+).



RN 169200-54-8 CAPLUS

CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-(2,3-dihydro-3-methyl-2-oxo-1-phenyl-1H-indol-3-yl)-9-methyl-, monohydrochloride, (+)- (9CI) (CA INDEX NAME)

Rotation (+).



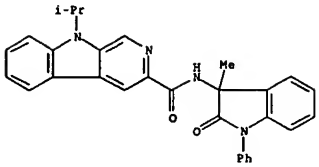
● HCl

RN 169200-55-9 CAPLUS

CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-(2,3-dihydro-3-methyl-2-oxo-1-phenyl-1H-indol-3-yl)-9-(1-methylethyl)-, (+)- (9CI) (CA INDEX NAME)

Rotation (+).

L12 ANSWER 13 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



L12 ANSWER 14 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:786662 CAPLUS

DOCUMENT NUMBER: 124:8655

TITLE: Synthesis of 4-arylpyridines and substituted β-carbolines via 1,4-Grignard-addition to pyridinecarboxamides

AUTHOR(S): Schlecker, Wolfgang; Huth, Andreas; Ottow, Eckhard; Mulzer, Johann

CORPORATE SOURCE: Schering AG Berlin, Berlin, D-13353, Germany

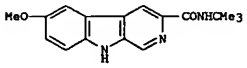
SOURCE: Tetrahedron (1995), 51(35), 9531-42
CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



I

AB 2,5-Pyridinedicarboxamides, 5-bromo-3-pyridinecarboxamide, and 3-hydroxy-2,5-pyridinedicarboxamide undergo 1,4-addition with Grignard reagents to give 2,4,5- or 3,4,5-trisubstituted and 2,3,4,5-tetrasubstituted pyridines after oxidation with NCS or oxygen. After selective transformation of the amides to carbamates, a modified intramol. Goldberg amide arylation furnishes β-carbolines, e.g., I, in good yields.

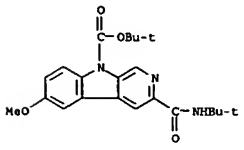
IT 171002-88-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of arylpyridines and β-carbolines via Grignard addition to pyridinecarboxamides)

RN 171002-88-3 CAPLUS

CN 9H-Pyrido[3,4-b]indole-9-carboxylic acid, 3-[[[(1,1-dimethylethyl)amino]carbonyl]-6-methoxy-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



L12 ANSWER 15 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:283749 CAPLUS

DOCUMENT NUMBER: 122:81176

TITLE: Synthetic Routes to 4-Amino-3-carboxy-β-carboline Derivatives: Incidental Formation of Novel Furo[3,4-c]-β-carbolin-2-ones Displaying High Affinities for the Benzodiazepine Receptor

AUTHOR(S): Dorey, Gilbert; Dubois, Laurent; Prado de Carvalho, Lia Prdo; Potier, Pierre; Dodd, Robert H.

CORPORATE SOURCE: Institut de Chimie des Substances Naturelles, Centre National de la Recherche Scientifique, Gif-sur-Yvette, 91198, Fr.

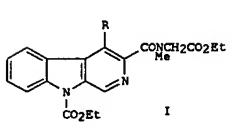
SOURCE: Journal of Medicinal Chemistry (1995), 38(1), 189-98
CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

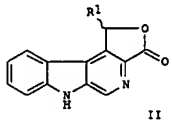
DOCUMENT TYPE: Journal

LANGUAGE: English

GI



I



II

AB The synthesis of the first 4-amino-3-carboxy-β-carboline derivative I [R = NHCO2CMe3] is described. This synthesis is based on ozonolysis of I [R = vinyl] to give I [R = CHO] and potassium permanganate oxidation of the latter to I [R = CO2H] followed by a DPPA-promoted Curtius rearrangement. During the course of these transformations furo[3,4-c]-β-carbolin-2-ones II [R1 = Me, OEt, OMe, CH2OH, OH] were formed. While II generally displayed good affinities for the central type benzodiazepine receptor in vitro (IC50's in the 10-50 nM range), II [R1 = CH2OH] demonstrated an exceptionally high binding affinity (IC50 = 0.2 nM). II [R1 = CH2OH] was shown in electrophysiol. and behavioral studies to act as a benzodiazepine receptor antagonist. The unusually high binding affinity of II [R1 = CH2OH] corroborates the hypothesis that the benzodiazepine receptor preferentially recognizes the C-3 carbonyl function of 3-carboxy-β-carbolines in an s-cis conformation (i.e., the carbonyl oxygen on the same side as the pyridinyl nitrogen).

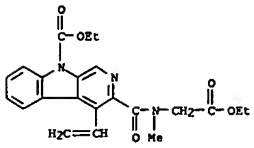
IT 144824-04-4P 144824-06-6P 144824-12-4P
144824-13-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

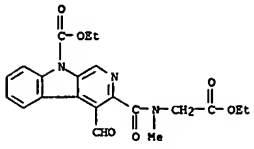
(preparation of amino(carboxy)-β-carbolines and furo[3,4-c]-β-carbolinones with high affinities for the benzodiazepine receptor)

RN 144824-04-4 CAPLUS

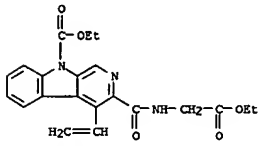
CN 9H-Pyrido[3,4-b]indole-9-carboxylic acid, 4-ethenyl-3-[[(2-ethoxy-2-oxoethyl)methylamino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



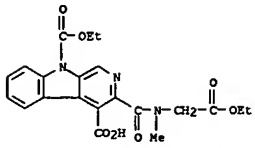
RN 144824-06-6 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-carboxylic acid, 3-[[(2-ethoxy-2-oxoethyl)methylamino]carbonyl]-4-formyl-, ethyl ester (9CI) (CA INDEX NAME)



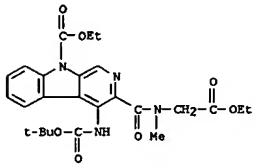
RN 144824-12-4 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-carboxylic acid, 4-ethenyl-3-[[(2-ethoxy-2-oxoethyl)amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



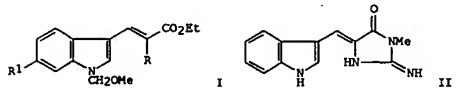
RN 144824-13-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-4,9-dicarboxylic acid, 3-[[(2-ethoxy-2-oxoethyl)methylamino]carbonyl]-, 9-ethyl ester (9CI) (CA INDEX NAME)



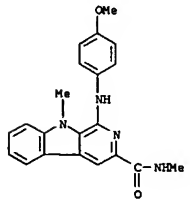
IT 160207-34-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of amino(carboxy)-β-carbolines and furo[3,4-c]-β-carbolinones with high affinities for the benzodiazepine receptor)
RN 160207-34-1 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-carboxylic acid, 4-[[(1,1-dimethylethoxy)carbonyl]amino]-3-[[(2-ethoxy-2-oxoethyl)methylamino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1994:457761 CAPLUS
DOCUMENT NUMBER: 121:57761
TITLE: Iminophosphorane-mediated imidazole ring formation: a new and general entry to aplysinopsin-type alkaloids of marine origin
AUTHOR(S): Molina, Pedro; Almendros, Pedro; Fresneda, Pilar M.
CORPORATE SOURCE: Dep. Quim. Org., Fac. Quim., Murcia, E-30071, Spain
SOURCE: Tetrahedron (1994), 50(7), 2241-54
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 121:57761
GI



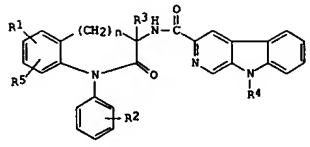
AB Aza Wittig-type reactions of iminophosphoranes I (R = N:PPh3, R1 = H, Br), derived from Et α-azido-β-(3-indolyl)propenoates and triphenylphosphine, with Me isocyanate, carbon dioxide or carbon disulfide provide the corresponding heterocumulenes I (R = N:C:NMe, N:C:O, N:C:S) which undergo cyclization by the action of nitrogenous reagents completing the assemblage of the framework of aplysinopsin. Further deprotection leads to naturally occurring aplysinopsin and analogs, e.g. II.
IT 156046-84-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 156046-84-3 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 1-[(4-methoxyphenyl)amino]-N,9-dimethyl- (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1994:245060 CAPLUS
DOCUMENT NUMBER: 120:245060
TITLE: Beta-carboline derivatives with anticholecystokinin activity, and their preparation, use, and pharmaceutical compositions
INVENTOR(S): Yamada, Koichiro; Hikota, Masataka; Yura, Takeshi; Shikano, Toshiro; Nagasaki, Masaaki
PATENT ASSIGNEE(S): Tanabe Seiyaku Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 26 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 572235	A2	19931201	EP 1993-304083	19930526
EP 572235	A3	19940601		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 06041126	A2	19940215	JP 1993-123668	19930526
CA 2097112	AA	19931129	CA 1993-2097112	19930527
US 5434148	A	19950718	US 1993-67931	19930527
PRIORITY APPLN. INFO.:			JP 1992-136819 A	19920528
OTHER SOURCE(S):	MARPAT 120:245060			

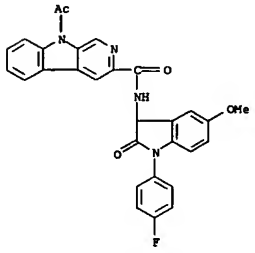
GI



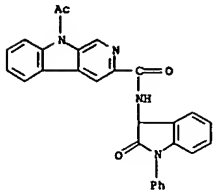
AB Disclosed are β-carboline derivs. I, wherein R1 is H, alkyl, alkoxy, or OH; R5 is H; or R1R5 is alkylenedioxy; R2 is H, halo, alkoxy, or OH; R3 is H, carbamoylalkyl, alkyl, carboxyalkyl, or alkoxycarbonylalkyl; R4 is H, alkyl, carboxyalkyl, alkoxycarbonylalkyl, alkanoyl, arylcarbonyl, alkanesulfonyl, alkoxycarbonyl, aralkyl, formyl, or dialkylsulfamoyl; and n is 0, 1 or 2; and their pharmaceutically acceptable salts. Also claimed is a process for preparing I by formation of the bridging amide linkage, use of the compds. for prophylaxis or treatment of digestive diseases, and pharmaceuticals containing I. Examples include 85 invention compound syntheses and 48 precursor prepns. Thus, Friedel-Crafts cyclization of 4-MeOC6H4NHC6H4F-4 with oxalyl chloride gave 1-(4-fluorophenyl)-5-methoxy-1H-indole-2,3-dione, which reacted with NH2OH.HCl to give the 3-oxime. Hydrogenation of the latter to the 3-amino derivative, and amidation of this with β-carbolin-3-ylcarbonyl chloride, gave I [n = 0, R1 = 5-MeO, R2 = 4-F, R3 = R4 = R5 = H]. The compound I [n = 0, R3 = Me, other Rs = H] at 10 mg/kg i.v. in rats gave significant inhibition of pancreatic secretion induced by CCK-8 (no addnl. data). I are also said to show low toxicity.
IT 154057-99-5P 154058-00-1P 154058-01-2P

154058-02-3P 154058-11-4P 154058-12-5P
154058-13-6P 154058-14-7P 154058-15-8P
154058-16-9P 154058-18-1P 154058-19-2P
154058-20-5P 154058-21-6P 154058-23-8P
154058-36-3P 154058-37-4P 154058-38-5P
154058-39-6P 154058-40-9P 154058-41-0P
154058-42-1P 154058-43-2P 154058-44-3P
154058-45-4P 154058-46-5P 154058-47-6P
154058-48-7P 154058-49-8P 154058-50-1P
154058-51-2P 154058-52-3P 154058-53-4P
154058-55-6P 154058-56-7P 154058-57-8P
154058-58-9P 154058-59-0P 154058-60-3P
154058-61-4P 154058-62-5P 154058-63-6P
154058-64-7P 154058-65-8P 154058-66-9P
154058-72-7P 154058-73-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as CCK antagonist)

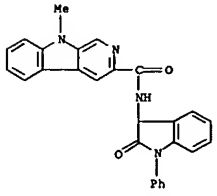
RN 154057-99-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-2-oxo-1H-indol-3-yl]- (9CI) (CA INDEX NAME)



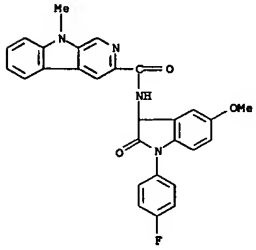
RN 154058-00-1 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-(2,3-dihydro-2-oxo-1-phenyl-1H-indol-3-yl)- (9CI) (CA INDEX NAME)



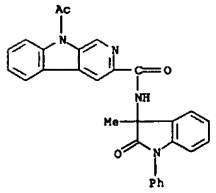
RN 154058-01-2 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-(2,3-dihydro-2-oxo-1-phenyl-1H-indol-3-yl)-9-methyl- (9CI) (CA INDEX NAME)



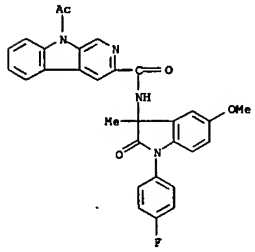
RN 154058-02-3 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-2-oxo-1H-indol-3-yl]-9-methyl- (9CI) (CA INDEX NAME)



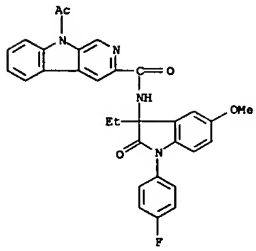
RN 154058-11-4 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-(2,3-dihydro-3-methyl-2-oxo-1-phenyl-1H-indol-3-yl)- (9CI) (CA INDEX NAME)



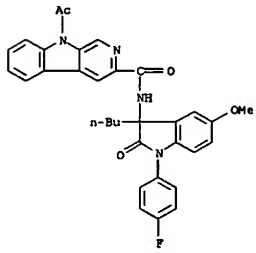
RN 154058-12-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]- (9CI) (CA INDEX NAME)



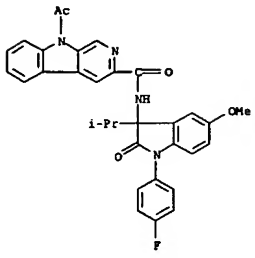
RN 154058-13-6 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[3-ethyl-1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-2-oxo-1H-indol-3-yl]- (9CI) (CA INDEX NAME)



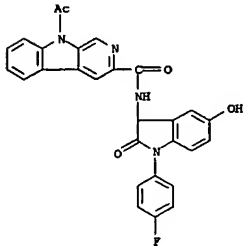
RN 154058-14-7 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[3-butyl-1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-2-oxo-1H-indol-3-yl]- (9CI) (CA INDEX NAME)



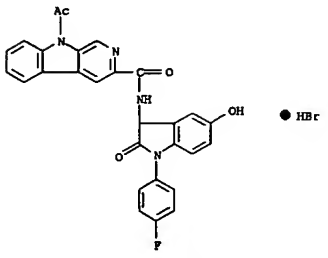
RN 154058-15-8 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-(1-methylethyl)-2-oxo-1H-indol-3-yl]- (9CI) (CA INDEX NAME)



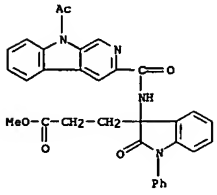
RN 154058-16-9 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[1-(4-fluorophenyl)-2,3-dihydro-5-hydroxy-2-oxo-1H-indol-3-yl]- (9CI) (CA INDEX NAME)



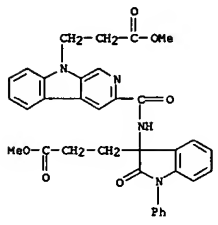
RN 154058-18-1 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[1-(4-fluorophenyl)-2,3-dihydro-5-hydroxy-2-oxo-1H-indol-3-yl]-, monohydrobromide (9CI) (CA INDEX NAME)



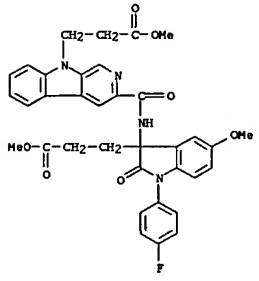
RN 154058-19-2 CAPLUS
CN 1H-Indole-3-propanoic acid, 3-[[(9-acetyl-9H-pyrido[3,4-b]indol-3-yl)carbonyl]amino]-2,3-dihydro-2-oxo-1-phenyl-, methyl ester (9CI) (CA INDEX NAME)



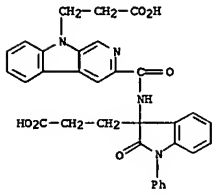
RN 154058-20-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-propanoic acid, 3-[[[2,3-dihydro-3-(3-methoxy-3-oxopropyl)-2-oxo-1-phenyl-1H-indol-3-yl]amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 154058-21-6 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-propanoic acid, 3-[[[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-(3-methoxy-3-oxopropyl)-2-oxo-1H-indol-3-yl]amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

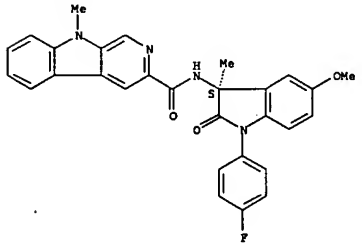


RN 154058-23-8 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-propanoic acid, 3-[[[3-(2-carboxyethyl)-2,3-dihydro-2-oxo-1-phenyl-1H-indol-3-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



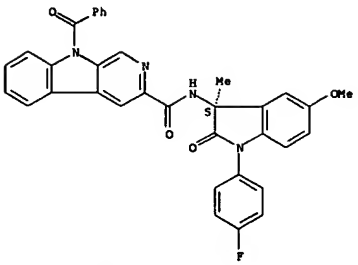
RN 154058-36-3 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-9-methyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



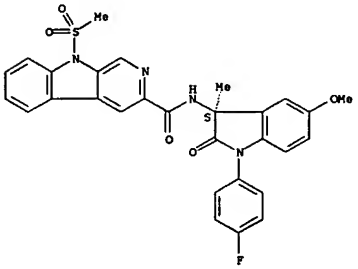
RN 154058-37-4 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-benzoyl-N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



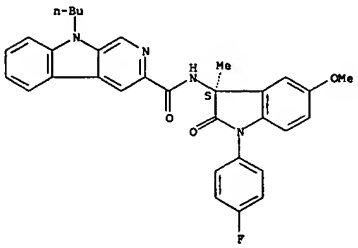
RN 154058-38-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-9-(methylsulfonyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



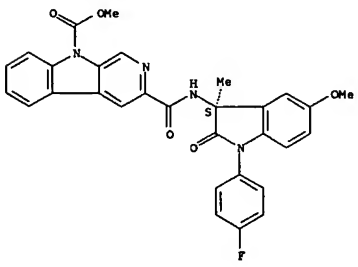
RN 154058-39-6 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-9-(1-oxopropyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



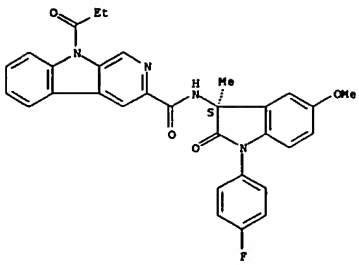
RN 154058-42-1 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-carboxylic acid, 3-[[[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]amino]carbonyl]-, methyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



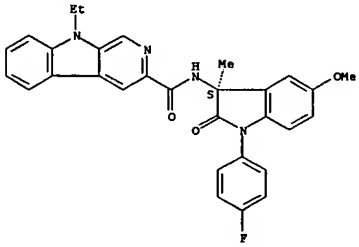
RN 154058-43-2 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-9-(phenylmethyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



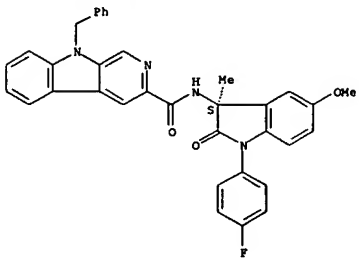
RN 154058-40-9 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-ethyl-N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



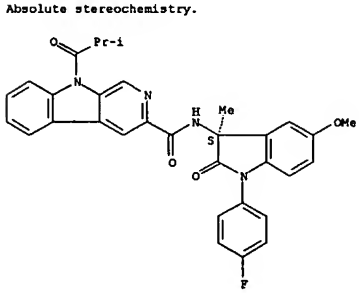
RN 154058-41-0 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-butyl-N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



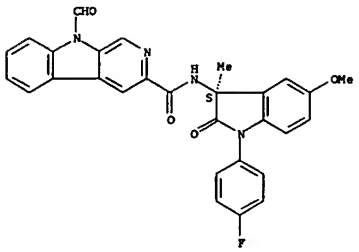
RN 154058-44-3 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-9-(2-methyl-1-oxopropyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



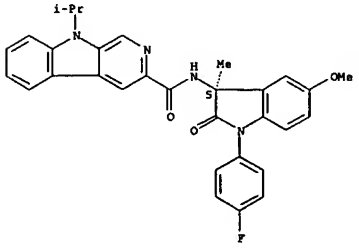
RN 154058-45-4 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-9-formyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 154058-46-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-9-(1-methylethyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 154058-47-6 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-acetic acid, 3-[[[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]amino]carbonyl]-, methyl ester, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

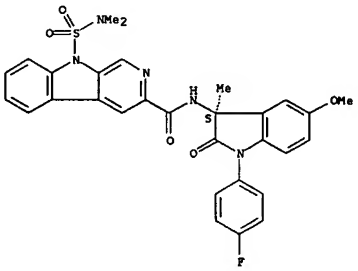
PAGE 2-A

● Na

RN 154058-49-8 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(dimethylamino)sulfonyl]-N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



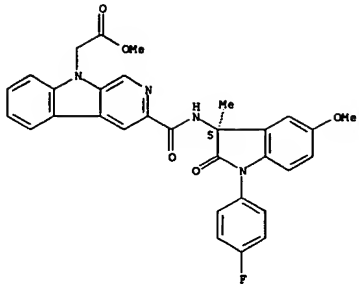
PAGE 2-A

● HCl

RN 154058-50-1 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



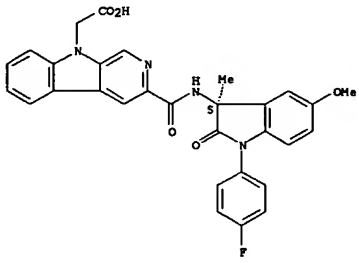
PAGE 2-A

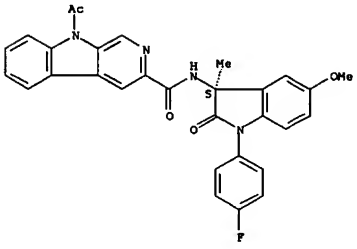
● HCl

RN 154058-48-7 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-acetic acid, 3-[[[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]amino]carbonyl]-, monosodium salt, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

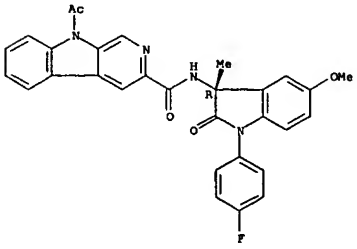
PAGE 1-A





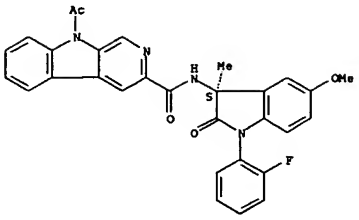
RN 154058-51-2 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[1-(4-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



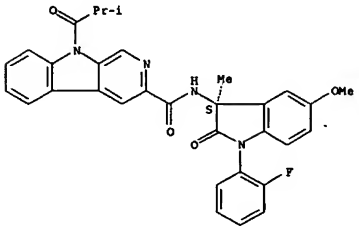
RN 154058-52-3 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[1-(2-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 154058-53-4 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[1-(2-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-9-(2-methyl-1-oxopropyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 154058-55-6 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-ethyl-N-[1-(2-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-, (S)-, monomethanesulfonate (9CI) (CA INDEX NAME)

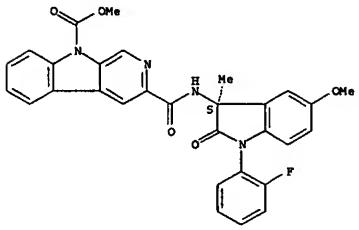
CM 1

CRN 154058-54-5
CMF C30 H25 F N4 O3

Absolute stereochemistry.

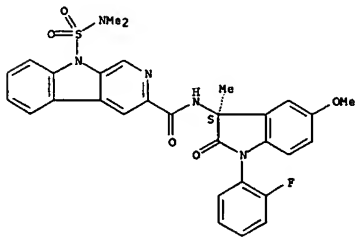
RN 154058-57-8 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-carboxylic acid, 3-[[[1-(2-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]amino]carbonyl]-, methyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



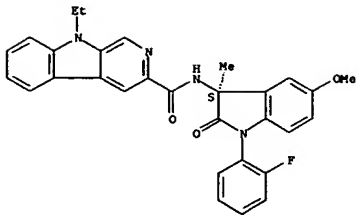
RN 154058-58-9 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-[(dimethylamino)sulfonyl]-N-[1-(2-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 154058-59-0 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-acetic acid, 3-[[[1-(2-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]amino]carbonyl]-, methyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

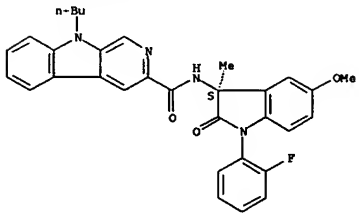


CM 2

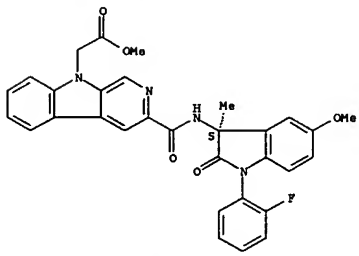
CRN 75-75-2
CMF C H4 O3 S

RN 154058-56-7 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-butyl-N-[1-(2-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]-, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

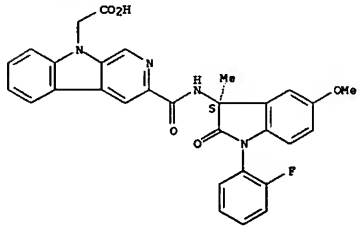


● HCl



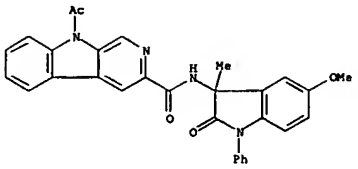
RN 154058-60-3 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-acetic acid, 3-[[[1-(2-fluorophenyl)-2,3-dihydro-5-methoxy-3-methyl-2-oxo-1H-indol-3-yl]amino]carbonyl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



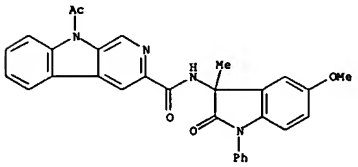
RN 154058-61-4 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-(2,3-dihydro-5-methoxy-3-methyl-2-oxo-1-phenyl-1H-indol-3-yl)-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).



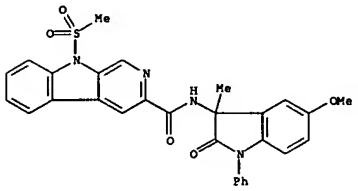
RN 154058-62-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-(2,3-dihydro-5-methoxy-3-methyl-2-oxo-1-phenyl-1H-indol-3-yl)-, (+)- (9CI) (CA INDEX NAME)

Rotation (+).



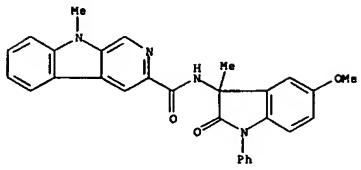
RN 154058-63-6 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-(2,3-dihydro-5-methoxy-3-methyl-2-oxo-1-phenyl-1H-indol-3-yl)-9-(methylsulfonyl)-, (+)- (9CI) (CA INDEX NAME)

Rotation (+).



RN 154058-64-7 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-(2,3-dihydro-5-methoxy-3-methyl-2-oxo-1-phenyl-1H-indol-3-yl)-9-methyl-, monohydrochloride, (+)- (9CI) (CA

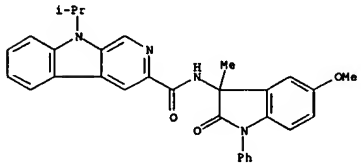
Rotation (+).



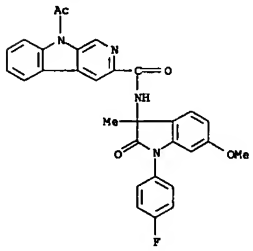
● HCl

RN 154058-65-8 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-(2,3-dihydro-5-methoxy-3-methyl-2-oxo-1-phenyl-1H-indol-3-yl)-9-(1-methylethyl)-, (+)- (9CI) (CA INDEX NAME)

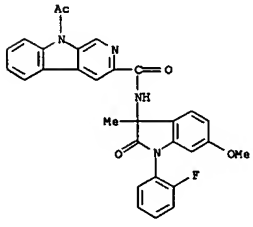
Rotation (+).



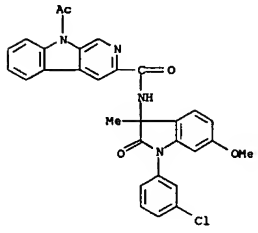
RN 154058-66-9 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[1-(4-fluorophenyl)-2,3-dihydro-6-methoxy-3-methyl-2-oxo-1H-indol-3-yl]- (9CI) (CA INDEX NAME)



RN 154058-72-7 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[1-(2-fluorophenyl)-2,3-dihydro-6-methoxy-3-methyl-2-oxo-1H-indol-3-yl]- (9CI) (CA INDEX NAME)

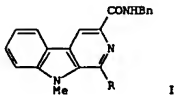


RN 154058-73-8 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-[1-(3-chlorophenyl)-2,3-dihydro-6-methoxy-3-methyl-2-oxo-1H-indol-3-yl]- (9CI) (CA INDEX NAME)



L12 ANSWER 18 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:77199 CAPLUS
DOCUMENT NUMBER: 120:77199
TITLE: Ortho-directed lithiation studies of 3-carboxy-β-carbolines: a direct route to 4-substituted derivatives
AUTHOR(S): Mehta, Anita; Dodd, Robert H.
CORPORATE SOURCE: Inst. Chim. Subst. Nat., Cent. Natl. Rech. Sci., Gif-sur-Yvette, 91198, Fr.
SOURCE: Journal of Organic Chemistry (1993), 58(26), 7587-90
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



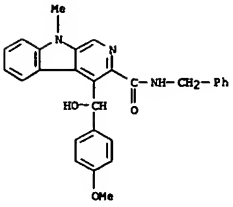
I

AB 9-N-methyl-3-N-benzyl-β-carboline-3-carboxamide (I; R = H) was regioselectively lithiated at the C-4 position using sec-butyllithium in THF at -78°C. The anion reacted with deuterium oxide to give the corresponding 4-deuterated derivative of I (R = H) in 45% yield. A side reaction in the latter case included nucleophilic addition of sec-butyllithium to the C-1 position of the β-carboline to give compound I (R = CHMeEt). This type of side product was not formed when methyllithium instead of sec-butyllithium was used to generate the anion of I (R = H). Under these conditions, specific C-4 substitution of β-carboline I (R = H) was achieved in high yields using anisaldehyde, benzophenone, N,N-dimethylformamide, and Pr iodide as electrophiles. This represents the first example of the use of ortho-directed metalation in the β-carboline series and allows direct entry to 4-substituted 3-carboxy-β-carbolines, a pharmacol. important class of compds.

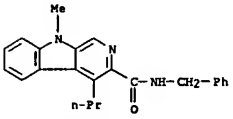
IT **152038-43-2P 152038-44-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)

RN 152038-43-2 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 4-[hydroxy(4-methoxyphenyl)methyl]-9-methyl-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

L12 ANSWER 18 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

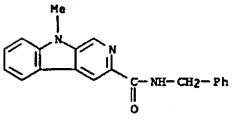


RN 152038-44-3 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-methyl-N-(phenylmethyl)-4-propyl- (9CI) (CA INDEX NAME)



IT **152038-35-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and regioselective C-alkylation and deuteration of)

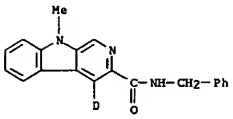
RN 152038-35-2 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-methyl-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



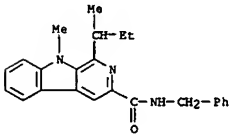
IT **152038-36-3P 152038-37-4P 152038-40-9P 152038-41-0P 152038-42-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 152038-36-3 CAPLUS
CN 9H-Pyrido[3,4-b]indol-4-d-3-carboxamide, 9-methyl-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

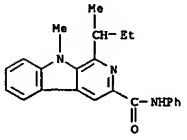
L12 ANSWER 18 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 152038-37-4 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-methyl-1-(1-methylpropyl)-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

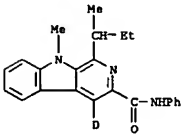


RN 152038-40-9 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-methyl-1-(1-methylpropyl)-N-phenyl- (9CI) (CA INDEX NAME)

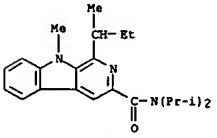


RN 152038-41-0 CAPLUS
CN 9H-Pyrido[3,4-b]indol-4-d-3-carboxamide, 9-methyl-1-(1-methylpropyl)-N-phenyl- (9CI) (CA INDEX NAME)

L12 ANSWER 18 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

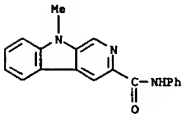


RN 152038-42-1 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-methyl-N,N-bis(1-methylethyl)-1-(1-methylpropyl)- (9CI) (CA INDEX NAME)



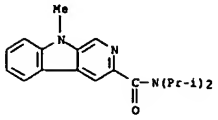
IT **152038-38-5 152038-39-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(regioselective C-alkylation and deuteration of)

RN 152038-38-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-methyl-N-phenyl- (9CI) (CA INDEX NAME)



RN 152038-39-6 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-methyl-N,N-bis(1-methylethyl)- (9CI) (CA INDEX NAME)

L12 ANSWER 18 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

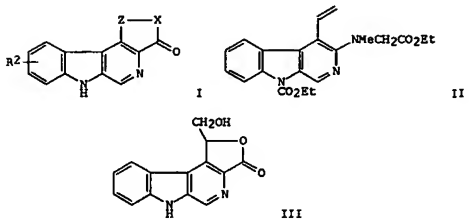


L12 ANSWER 19 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1993:6963 CAPLUS
DOCUMENT NUMBER: 118:6963
TITLE: Preparation of β-carboline derivatives as benzodiazepine receptor inverse agonists
INVENTOR(S): Dodd, Robert; Potier, Pierre; Rossier, Jean; Dorey, Gilbert; Dubois, Laurent; Prado de Carvalho, Lia
PATENT ASSIGNEE(S): Centre National de la Recherche Scientifique, Fr.
SOURCE: Eur. Pat. Appl., 21 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 499527	A1	19920819	EP 1992-400351	19920211
EP 499527	B1	19970502		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE				
FR 2672602	A1	19920814	FR 1991-1595	19910212
FR 2672602	B1	19930604		
AT 152452	E	19970515	AT 1992-400351	19920211
ES 2103904	T3	19971001	ES 1992-400351	19920211
CA 2061065	AA	19920813	CA 1992-2061065	19920212
US 5258385	A	19931102	US 1992-834399	19920212
JP 06211841	A2	19940802	JP 1992-57216	19920212

PRIORITY APPLN. INFO.: FR 1991-1595 A 19910212
OTHER SOURCE(S): MARPAT 118:6963
GI



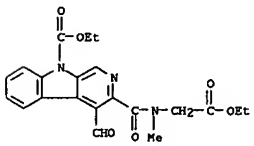
AB Title compds. [e.g. I; R2 = H, OH, alkoxy, acyloxy, PhCH2O, etc.; X = O, S, NR5; Z = CHR1, NR6COCH2; R1 = OH, alkoxy, hydroxyalkyl, alkoxyalkyl; R5, R6 = H, (hydroxy)alkyl, alkoxyalkyl, etc.] were prepared Thus, aminomethylvinylcarboline II was treated with OsO4 and the product deprotected to give title compound III which had IC50 of 0.18 nM for antagonism of flunitrazepam binding at rat cortical membrane in vitro.

IT **144824-06-6P 144824-13-5P 144824-14-6P 144824-15-7P**

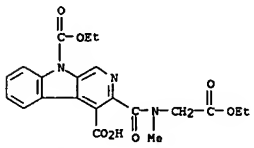
L12 ANSWER 19 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction of, in prepn. of psychotropics)

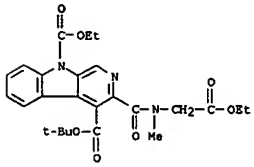
RN 144824-06-6 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-carboxylic acid, 3-[[(2-ethoxy-2-oxoethyl)methylamino]carbonyl]-4-formyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 144824-13-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-4,9-dicarboxylic acid, 3-[[(2-ethoxy-2-oxoethyl)methylamino]carbonyl]-, 9-ethyl ester (9CI) (CA INDEX NAME)



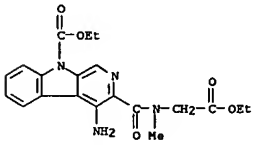
RN 144824-14-6 CAPLUS
CN 9H-Pyrido[3,4-b]indole-4,9-dicarboxylic acid, 3-[[(2-ethoxy-2-oxoethyl)methylamino]carbonyl]-, 4-(1,1-dimethylethyl) 9-ethyl ester (9CI) (CA INDEX NAME)



RN 144824-15-7 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-carboxylic acid, 4-amino-3-[[(2-ethoxy-2-

L12 ANSWER 19 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

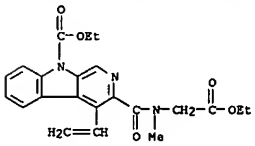
oxoethyl)methylamino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



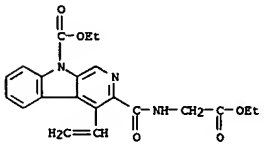
IT **144824-04-4 144824-12-4**

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in preparation of psychotropics)

RN 144824-04-4 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-carboxylic acid, 4-ethenyl-3-[[(2-ethoxy-2-oxoethyl)methylamino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 144824-12-4 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-carboxylic acid, 4-ethenyl-3-[[(2-ethoxy-2-oxoethyl)amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



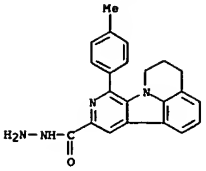
L12 ANSWER 20 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1990:459149 CAPLUS
DOCUMENT NUMBER: 113:59149
TITLE: Preparation of 8,9-annelated beta-carbolines and 8,9-annelated 3,4-dihydro-beta-carbolines as fibrinolytics
INVENTOR(S): Hamminga, Derk; Haeck, Hans H.; Van Wijngaarden, Ineke; Jansen, Johannes W. C. M.
PATENT ASSIGNEE(S): Duphar International Research B. V., Neth.
SOURCE: Eur. Pat. Appl., 13 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

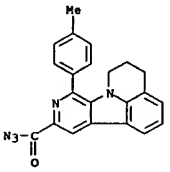
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 347980	A1	19891227	EP 1989-201538	19890614
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
DK 8902949	A	19891221	DK 1989-2949	19890615
DK 169731	B1	19950130		
ZA 8904577	A	19900328	ZA 1989-4577	19890615
CA 1338190	A1	19960326	CA 1989-602836	19890615
AU 8936501	A1	19891221	AU 1989-36501	19890616
AU 628059	B2	19920910		
IL 90652	A1	19930818	IL 1989-90652	19890619
JP 02045485	A2	19900215	JP 1989-155920	19890620
US 5332746	A	19940726	US 1991-700058	19910508
PRIORITY APPLN. INFO.:			NL 1988-1565 A	19880620
			NL 1989-136 A	19890120
			US 1989-366535 B1	19890615

OTHER SOURCE(S): MARPAT 113:59149
GI For diagram(s), see printed CA Issue.
AB Title compds. I and II [R1 = OH, halo, cyano, alkoxycarbonyl, cycloalkyl, (un)substituted alkyl, alkoxy, alkylthio, etc.; (R1)2 may form ring; n = 0-2; R2R3 forms heterocyclic ring which may be annelated; R4 = H, (un)substituted alkyl, alkoxy, alkenyl, alkynyl, cycloalkyl, Ph, etc.; R5 = alkyl, O, or is absent; R6 = H, alkyl, halo, cyano, acylamino, alkoxycarbonyl, NH2, CH2OH, alkoxymethyl, carbamoyl, sulfamoyl, etc.; p = 1,2; ≥ 1 R6 = H] are prepared as fibrinolytics (no data). Thus, Et 2-amino-3-(5,6-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-3-methylpropanoate (prepared in 4 steps) was cyclocondensed with PhCHO in AcOH at 50° and the product dehydrogenated with KMnO4 in THF at room temperature to give dihydropyridopyrroloquinoline III, isolated as the HCl salt.
IT **128131-78-2P 128131-79-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of fibrinolytics)
RN 128131-78-2 CAPLUS
CN 4H-Pyrido[4',3':4,5]pyrrolo[3,2,1-ij]quinoline-10-carboxylic acid, 5,6-dihydro-8-(4-methylphenyl)-, hydrazide (9CI) (CA INDEX NAME)

L12 ANSWER 20 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 128131-79-3 CAPLUS
CN 4H-Pyrido[4',3':4,5]pyrrolo[3,2,1-ij]quinoline-10-carbonyl azide, 5,6-dihydro-8-(4-methylphenyl)- (9CI) (CA INDEX NAME)

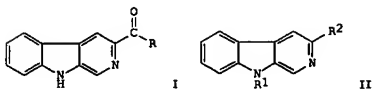


L12 ANSWER 21 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:632777 CAPLUS
DOCUMENT NUMBER: 111:232777
TITLE: New 3-substituted β-carbolines with benzodiazepine receptor-binding activity, processes and intermediates for their preparation, their use as medicaments, and pharmaceutical compositions containing them
INVENTOR(S): Gardner, Colin Robert; Hedgecock, Charles John Robert
PATENT ASSIGNEE(S): Roussel-UCLAF, Fr.
SOURCE: Fr. Demande, 18 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2619817	A1	19890303	FR 1988-11243	19880826
FR 2619817	B1	19920117		
GB 2209032	A1	19890426	GB 1988-20218	19880825
GB 2209032	B2	19910731		
PRIORITY APPLN. INFO.:			GB 1987-20125 A	19870826

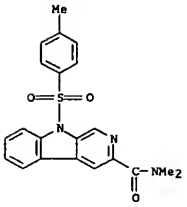
OTHER SOURCE(S): MARPAT 111:232777
GI



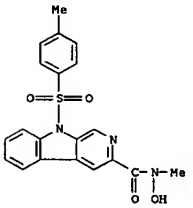
I II

AB β-Carboline-derived ketones I (R = C3-6 cycloalkyl), which have a remarkable affinity for benzodiazepine receptors, were prepared from corresponding aldehydes II (R1 = protecting group; R2 = CHO). II (R1 = H, R2 = CHO) was silylated by NaH and Me3SiCl, then treated in situ with cyclopropylmagnesium bromide and worked up with NH4Cl to give II (R1 = H, R2 = cyclopropylhydroxymethyl). Oxidation of the alc. by MnO2 in CHCl3 gave I (R = cyclopropyl) (III). Tablets were prepared from 20 mg III and 150 mg excipient containing lactose, starch, talc, and Mg stearate. The IC50 of III for inhibiting specific binding of [3H]-flunitrazepam (0.6 nmol) to benzodiazepine receptors in a rat brain membrane preparation was 0.7 nM.
IT **123787-42-8P 123819-70-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of benzodiazepine receptor-binding
β-carboline derivs.)
RN 123787-42-8 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N,N-dimethyl-9-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)

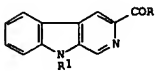
L12 ANSWER 21 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

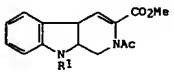


RN 123819-70-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-hydroxy-N-methyl-9-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)

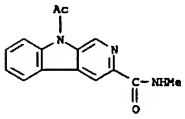


L12 ANSWER 22 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1988:486105 CAPLUS
DOCUMENT NUMBER: 109:86105
TITLE: Neuropharmacology of several β-carboline derivatives and their 9-acetylated esters. In vivo versus in vitro studies in the rabbit
AUTHOR(S): Mele, Laura; Massotti, Marino; Gatta, Franco
CORPORATE SOURCE: Lab. Farmacol., Ist. Super. Sanita, Rome, 00161, Italy
SOURCE: Pharmacology, Biochemistry and Behavior (1988), 30(1), 5-11
CODEN: PBBHAU; ISSN: 0091-3057
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

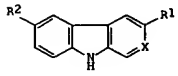

I


II

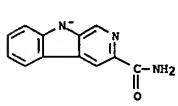
AB The neuropharmacol. of β-carboline derivs. (I, R = OMe, OEt, OPr, or NHMe and R1 = H and II, R1 = H) as well as their 9-acetyl derivs. (I, R = same groups and R1 = Ac and II, R1 = Ac) was studied both in vitro and in vivo rabbits. I and II competed with 3H-diazepam in their ability to bind to benzodiazepine receptors in membrane prepns. from brain cortex. The values of IC50 were in the nanomolar range without any significant differences between the acetyl derivs. and their congeners. I (R = OPr and R1 = Ac) showed a 10-fold decrease in the binding capacity with respect to I (R = OPr and R1 = H). In the presence of 10-5M GABA (γ-aminobutyric acid), a decrease in the binding capacity for 6,7-dimethoxy-4-ethyl-3-methoxycarbonylcarboline (DMCM) and I (R = OMe, OEt or NHMe and R1 = H), and an increase in the binding capacity for I (R = OPr and R1 = Ac) were observed In vivo studies showed that I (R = OMe, R1 = H or Ac) and II (R1 = H or Ac) elicited 3 dose-dependent stages of electrocortical changes. The efficacy of DMCM and I (R = OMe, OEt, NHMe) as inverse agonists of benzodiazepine receptor in the EEG paradigm parallels the reduction of their apparent binding affinity in the presence of GABA.
IT 115905-92-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and neuropharmacol. of, benzodiazepine receptor binding in relation to)
RN 115905-92-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-acetyl-N-methyl- (9CI) (CA INDEX NAME)



L12 ANSWER 23 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1985:498324 CAPLUS
DOCUMENT NUMBER: 103:98324
TITLE: Theoretical structure-activity studies of β-carboline analogs. Requirements for benzodiazepine receptor affinity and antagonist activity
AUTHOR(S): Loew, Gilda H.; Nienow, John; Lawson, John A.; Toll, Lawrence; Uyeno, Edward T.
CORPORATE SOURCE: Life Sci. Div., SRI Int., Menlo Park, CA, 94025, USA
SOURCE: Molecular Pharmacology (1985), 28(1), 17-31
CODEN: MOPMA3; ISSN: 0026-895X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

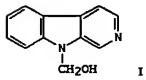

I

AB The techniques of theor. chemical were used to elucidate the mol. properties and modes of receptor binding that modulate receptor affinity and antagonist activity of the β-carbolines, a class of potent benzodiazepine antagonists. Six analogs I (R1 = H, CONH2, CO2Me, or CN; R2 = H or NO2; X = N or CH) were chosen in order to investigate the role of the amine (NH) group, the aromatic nitrogen, and the C3-substituent in determining receptor affinities. Electrostatic potential mapping and characterization of explicit drug-receptor interactions led to the hypothesis that simultaneous interaction of a model cationic arginine site with the N2 and C3-substituents could play a key role in determining receptor affinities. The electron-withdrawing effects of C3-substituents on the amine nitrogen appear less important, though interactions of these groups with an anionic glutamate or aspartate site could also occur at the receptor. Similarly, stacking interactions with neutral or cationic aromatic residues such as tryptophan or protonated histidine could occur, but do not appear to be determinants of the relative receptor affinity of the β-carbolines.
IT 97931-42-5
RL: PRP (Properties)
(heat of formation of)
RN 97931-42-5 CAPLUS
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, ion(1-) (9CI) (CA INDEX NAME)



L12 ANSWER 22 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

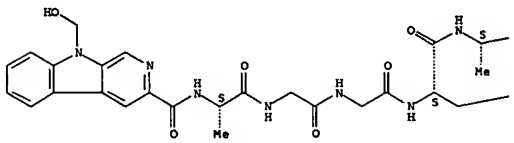
L12 ANSWER 24 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1983:518789 CAPLUS
DOCUMENT NUMBER: 99:118789
TITLE: Picomole analyses of tryptophan by derivatization to 9-hydroxymethyl-β-carboline
AUTHOR(S): Inoue, Shintaro; Tokuyama, Takashi; Takai, Katsuji
CORPORATE SOURCE: Fac. Med., Kyoto Univ., Kyoto, 606, Japan
SOURCE: Analytical Biochemistry (1983), 132(2), 468-80
CODEN: ANBCA2; ISSN: 0003-2697
DOCUMENT TYPE: Journal
LANGUAGE: English
GI


I

AB A new method specific for the determination of subpicomole quantities of tryptophan was developed by elaboration of the Pictet-Spengler reaction. It permitted reproducible quantitation of tryptophan in 1 μL plasma ultrafiltrate or 1 mg brain tissue. Samples deproteinized by TCA were boiled for 15 min with H2CO and K3Fe(CN)6 at controlled acidity to convert tryptophan to a single new product identified as 9-hydroxymethyl-β-carboline (I). It was quantitated by either direct fluorometry or a reversed-phase high-performance liquid chromatog. system developed for β-carbolines. Under these conditions, peptides containing N-terminal tryptophan such as Trp-Leu and delta sleep-inducing peptide gave N-(9-hydroxymethyl-β-carboline-3-carbonyl) peptides which retained all amino acid residues except tryptophan.
IT 87026-25-3
RL: FORM (Formation, nonpreparative)
(formation of, in tryptophan determination in delta sleep-inducing peptide)
RN 87026-25-3 CAPLUS
CN Delta sleep-inducing peptide (rabbit), 1-de-L-tryptophan-2-[N-[[9-(hydroxymethyl)-9H-pyrido[3,4-b]indol-3-yl]carbonyl]-L-alanine]- (9CI) (CA INDEX NAME)

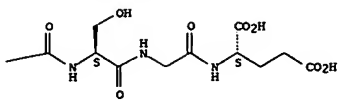
Absolute stereochemistry.

PAGE 1-A



L12 ANSWER 24 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

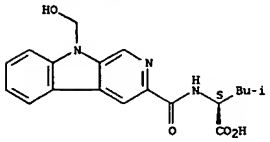
PAGE 1-B



—CO_2H

IT 87026-23-1
RL: FORM (Formation, nonpreparative)
(formation of, in tryptophan determination in tryptophanylleucine)
RN 87026-23-1 CAPLUS
CN L-Leucine, N-[[9-(hydroxymethyl)-9H-pyrido[3,4-b]indol-3-yl]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L12 ANSWER 25 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1981:515508 CAPLUS
DOCUMENT NUMBER: 95:115508
TITLE: Psychotropic β-carboline-3-carboxylates
PATENT ASSIGNEE(S): Schering A.-G., Fed. Rep. Ger.
SOURCE: Jpn. Kokai Tokkyo Koho, 39 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

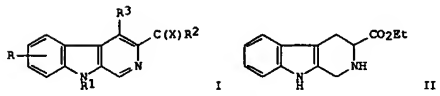
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 56043283	A2	19810421	JP 1980-119662	19800829
JP 02034952	B4	19900807		
DK 8000889	A	19810830	DK 1980-889	19800229
DE 3015816	A1	19811029	DE 1980-3015816	19800422
DE 3023567	A1	19820121	DE 1980-3023567	19800620
AU 8061864	A1	19810416	AU 1980-61864	19800819
AU 544731	B2	19850613		
EP 30254	A1	19810617	EP 1980-105019	19800823
EP 30254	B1	19841031		
R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
AT 10098	E	19841115	AT 1980-105019	19800823
IL 60906	A1	19851129	IL 1980-60906	19800825
RO 80265	P	19830429	RO 1980-102050	19800827
FI 8002720	A	19810301	FI 1980-2720	19800828
FI 68829	B	19850731		
FI 68829	C	19851111		
NO 8002546	A	19810302	NO 1980-2546	19800828
NO 155055	B	19861027		
NO 155055	C	19870204		
US 4371536	A	19830201	US 1980-182244	19800828
CA 1150246	A1	19830719	CA 1980-359184	19800828
HU 28753	O	19831228	HU 1980-2129	19800828
HU 186744	B	19850930		
SU 1114335	A3	19840915	SU 1980-2969305	19800828
DK 8003703	A	19810301	DK 1980-3703	19800829
DK 168292	B1	19940307		
ES 494590	A1	19810816	ES 1980-494590	19800829
ZA 8005383	A	19810826	ZA 1980-5383	19800829
DD 152935	C	19811216	DD 1980-223673	19800829
US 5010077	A	19910423	US 1988-188145	19880425

PRIORITY APPLN. INFO.:

DK 1979-3622	A	19790829
DK 1980-889	A	19800229
DE 1980-3015816	A	19800422
DE 1980-3023567	A	19800620
DK 1979-6322	A	19790829
EP 1980-105019	A	19800823
US 1980-182244	A3	19800828
US 1982-433308	B1	19821007
US 1985-731244	B1	19850507

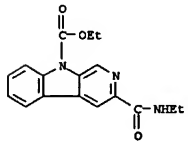
OTHER SOURCE(S): CASREACT 95:115508
GI

L12 ANSWER 25 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



I II

AB Psychotropics I (R = H, halo, amino, amido, NO2, cyano, carboxyl, alkoxycarbonyl, OH, alkoxy, SMe, sulfonamido; R1 = H, alkyl, alkoxycarbonyl; R2 = alkoxy, aryloxy,aralkoxy, amino; R3 = H, alkyl, cycloalkyl, aralkyl, Ph, alkoxyphenyl; X = S, O, NR4; R4 = H, alkyl, cycloalkyl) were prepared Thus, heating 15.0 g L-tryptophan with 6.07 mL 40% CH2O in 0.6 N NaOH at 53° 25 h followed by esterification gave 7.25 g II, which (7 g) was refluxed with 10 g chloranil in C12CHCHC12 to give 1.5 g I (R = R1 = R3 = H, R2 = OEt, X = O) (III). III had an ED50 of 60 mg/kg s.c. in rats for inhibition of Flunitrazepam binding.
IT 78538-78-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and psychotropic activity of)
RN 78538-78-0 CAPLUS
CN 9H-Pyrido[3,4-b]indole-9-carboxylic acid, 3-[(ethylamino)carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



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ACCESSION NUMBER: 1963:73257 CAPLUS
DOCUMENT NUMBER: 58:73257
ORIGINAL REFERENCE NO.: 58:12521h,12522a-d
TITLE: 1-Alkyl(or aryl)-β-carboline-3-carboxylic acid amides
INVENTOR(S): Leonard, Frederick
PATENT ASSIGNEE(S): J. R. Geigy A.-G.
SOURCE: 23 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 612725		19620717	BE	

PRIORITY APPLN. INFO.:

US		19610118

AB Me esters of tryptophan are condensed with aldehydes to give β-carboline-3-carboxylic acids which are then converted to the title compds. which can be used as tranquilizers. E.g., a mixture of 200 g. DL-tryptophan in 2000 ml. MeOH is saturated with HCl at 0°, the mixture kept 24 hrs., and the solid material filtered off; the filtrate gives 245.2 g. Me ester (I), m. 238°, of tryptophan-HCl. I (485 g.) is added to a mixture of 2000 ml. H2O and 200 ml. AcH, the mixture kept until a neg. ninhydrin reaction is obtained, 1 l. CHCl3 and 100 ml. NH3are added, the mixture is extracted with CHCl3, the extract washed with H2O, dried, filtered, and evaporated to dryness, and the residue recrystd. to give 399 g. Me 1-methyl-1,2,3,4-tetrahydro-β-carboline-3-carboxylate (II), m. 114-15° (MeOH), 85.8% yield. II (120 g.) is dissolved in MeOH, the solution saturated with NH3, the mixture kept 3 days, the solid material filtered off, the filtrate evaporated to dryness, and the residue recrystd. to give 98.3 g. 1-methyl-1,2,3-4-tetrahydro-β-carboline-3-carboxylic acid amide, m. 205° (MeOH), 87.2% yield. Similarly prepared are the following β-carbolin-3-carboxylic acid amides (m.p. given): 1,2,3,4-tetrahydro-, 222°; 1-benzyl-1,2,3,4-tetrahydro-, 197-8°; N,1-dimethyl-1,2,3,4-tetrahydro-, 215°; N-(2-diethylaminoethyl)-1-methyl-1,2,3,4-tetrahydro-, 176°; 1-phenyl-1,2,3,4-tetrahydro-, 232-5°; N-methyl-1-trifluoromethyl-1,2,3,4-tetrahydro-, 237-40°; 1-trifluoromethyl-1,2,3,4-tetrahydro-, 209-13°; N-methyl-1-benzyl-, 253° (BuOH); N-ethyl-1-methyl-, 230°; N,1-dimethyl-, 293-4°; N-methyl-1-isopropyl-, 296-7°; N-methyl-1-phenyl-, 256-7°; N-(3-pyridyl)-1-isopropyl-, 264-5° (dioxane); N-phenyl-1-methyl-, 273-5°; N-benzyl-1-methyl-, 295-6°; N-(3-pyridyl)-1-methyl-, 308-10°; N-(3-pyridylmethyl)-1-methyl-, 265-6°; N-diethylaminoethyl-1-benzyl-, 181-2° (iso-PrOH); N-(β-diethylaminoethyl)-1-isopropyl-, 174-6°; N-(β-diethylaminoethyl)-1-phenyl-, 172-3°; N-(γ-dimethylaminopropyl)-1-phenyl-, 189-91°; N-(γ-dimethylpropyl)-1-isopropyl-, 176-7°; N-(β-hydroxyethyl)-1-phenyl-, 236-7° (iso-PrOH); N-(β-hydroxyethyl)-1-benzyl-, 244°; N,N-diethyl-1-methyl-, 184° (EtOAc); N-(β-diethylaminoethyl)-1-methyl-, 169°; N-(β-hydrozyethyl)-1-methyl-, 220-2°; 1-methyl-, 284-5° (MeOH-dioxane); 1-trifluoromethyl-, 309-10° [tetrahydrofuran-(iso-Pr)2O]; 1-methyl-9-benzyl-, 237-8°; 1-isopropyl-, 275-6°; 1-phenyl-, 262-3°; 1-benzyl-, 208°; and 1-methyl-1,2,3,4-

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tetrahydro-, 206-8° (CHCl3). Also prepd. are: 1-methyl-β-carboline-3-thiocarboxylic acid amide, 258-60° (MeOCH2CH2OH); 1-methyl-3-carbamoyl-3,4-dihydro-β-carboline HCl salt, 278-80° (EtOH); 3-β-carbolinecarboxylic acid hydrazide, 292-3°; 1-methyl-3-carbamoyl-β-carboline methanesulfonate, 336°; Me 1-trifluoromethyl-β-carboline-3-carboxylate, 252-3° (xylene); β-carboline-3-carboxylic acid amide, 314-15°.

IT **94678-39-4**, 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-benzyl-1-methyl-
(preparation of)

RN 94678-39-4 CAPLUS

CN 9H-Pyrido[3,4-b]indole-3-carboxamide, 9-benzyl-1-methyl- (7CI) (CA INDEX NAME)